GP 2301#5

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: JOHNSON

Serial No. : 08/133,986
Filed : October 12, 1993
Examiner : R. Bayerl

Group Art Unit: 2301
Due Date: July 6, 1994
Docket: 7709.18US03

Title : COMPUTER-ASSISTED PARTS SALES METHOD

7560
093
Allowed Files
5/19/94

The Commissioner of Patents and Trademarks
ATTN: Official Draftsman
Washington, D.C. 20231

Sir:

We are transmitting herewith the attached:

X Transmittal Sheet in duplicate containing certificate under 37 CFR 1.8.

_ A verified statement to establish small entity status under 37 C.F.R. 1.9 and 1.27.

_ A signed Combined Declaration and Power of Attorney.

_ A Request for Extension of Time for _ months and fee of $_.

_ A check in the amount of $_, for _.

X A return postcard.

X Other: Submission of Formal Drawings (1 page communication); 74 pages of formal drawings.

__ Amendment __ No Additional fee is required _ The fee has been calculated as shown:

CLAIMS AS AMENDED

| | (1) CLAIMS REMAINING AFTER AMENDMENT | # # # # | (2) HIGHEST NUMBER PREVIOUSLY PAID FOR | (3) PRESENT EXTRA | SMALL ENTITY RATE | SMALL ENTITY ADD'L FEE | or | OTHER RATE | OTHER ADD'L FEE |
|---|---|---|---|---|---|---|---|---|---|
| TOTAL CLAIMS | | - | = | | x 11 = | $ | or | x 22 = | $ |
| INDEPENDENT CLAIMS | | - | 3 = | | x 37 = | $ | or | x 74 = | $ |
| ( ) FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM | | | | | +115 = | $ | or | + 230 = | $ |
| | | | | TOTAL | | $ | | | $ |

**Please consider this a PETITION FOR EXTENSION OF TIME for a sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 13-2725. A duplicate copy of this sheet is enclosed.**

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this Transmittal Letter and the paper, as described hereinabove, are being deposited in the United States Postal Service, as first class mail, in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, on this 23rd day of May, 1994.

MERCHANT, GOULD, SMITH, EDELL, WELTER & SCHMIDT
3100 Norwest Center, Minneapolis, MN 55402 (612-332-5300)

By: Lance L. Vietzke
Name: Lance L. Vietzke
Reg. No.: 36,708
LLV/mas

930420 (GENERAL)

#15

BATCH NO. A55

PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| | | | |
|---|---|---|---|
| Applicant: | JOHNSON | Examiner: | R. Bayerl |
| Serial # : | 08/133,986 | Group Art Unit: | 2301 |
| Filed : | October 12, 1993 | Docket: | 7709.18US03 |
| Title : | COMPUTER-ASSISTED PARTS SALES METHOD | | |

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SUBMISSION OF FORMAL DRAWINGS

The Commissioner of Patents
and Trademarks
Attn: Official Draftsman
Washington, D.C. 20231

Dear Sir:

Submitted herewith are 74 sheet(s) of Formal Drawings for completion of this application in response to the Notice of Allowance dated May 6, 1994.

Respectfully submitted,

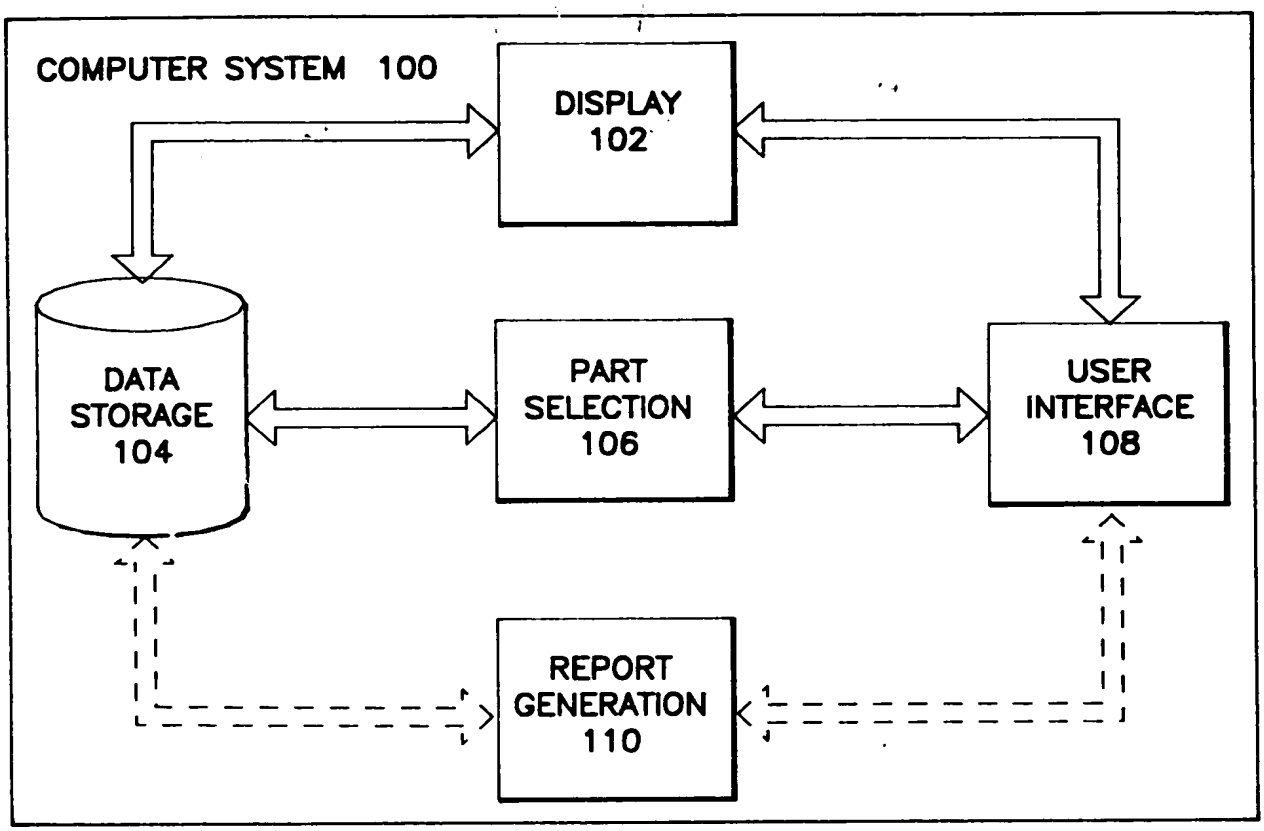
5-23-94
Date

Lance L. Vietzke
Reg. No.: 36,708

MERCHANT, GOULD, SMITH, EDELL,
WELTER & SCHMIDT, P.A.
3100 Norwest Center
90 South Seventh Street
Minneapolis, Minnesota 55402
(612) 332-5300

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231
on 5-23-94
(Date of Deposit)
Lance L. Vietzke

FIG. 1






294

| | | |
|---|---|---|
| NATURAL ORDER | | |
| PART # | | |
| BCI | | |
| COLD CRANKING AMPS | | |
| RESERVE CAP. | | |
| VOLTAGE | | |
| LENGTH | | |
| WIDTH | | |
| HEIGHT | | |
| WARRANTY | | |
| PRICE | | |

FIG. 6

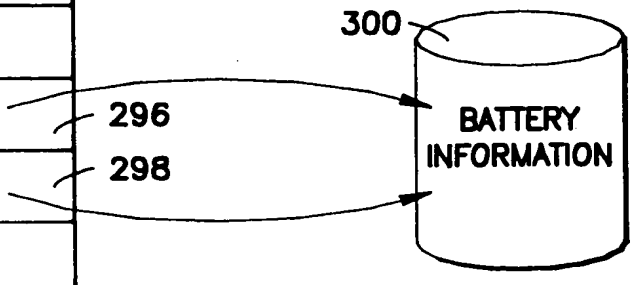


FIG. 1A

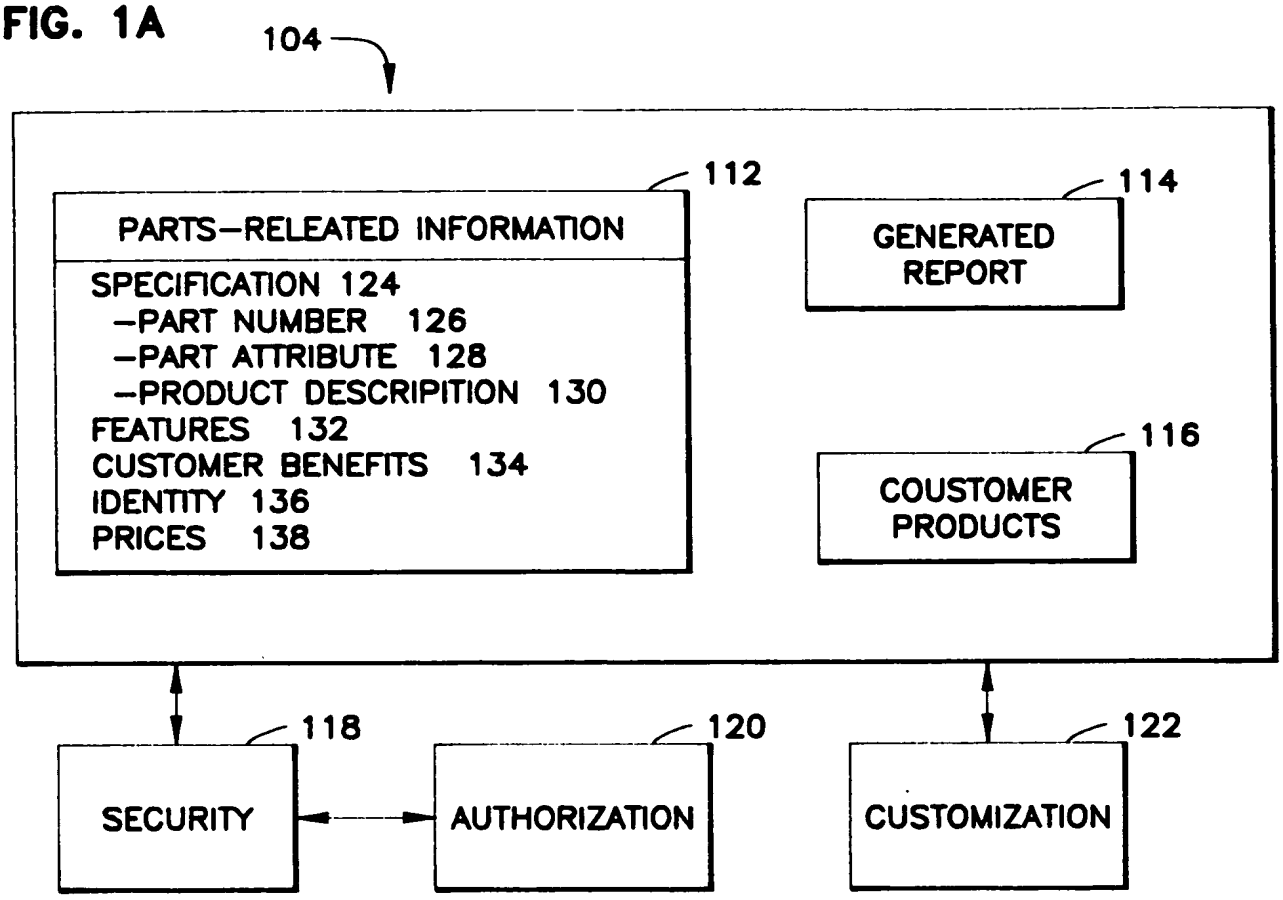

104
112
PARTS–RELEATED INFORMATION
SPECIFICATION 124
–PART NUMBER 126
–PART ATTRIBUTE 128
–PRODUCT DESCRIPTION 130
FEATURES 132
CUSTOMER BENEFITS 134
IDENTITY 136
PRICES 138
114
GENERATED REPORT
116
COUSTOMER PRODUCTS
118
SECURITY
120
AUTHORIZATION
122
CUSTOMIZATION

FIG. 1B

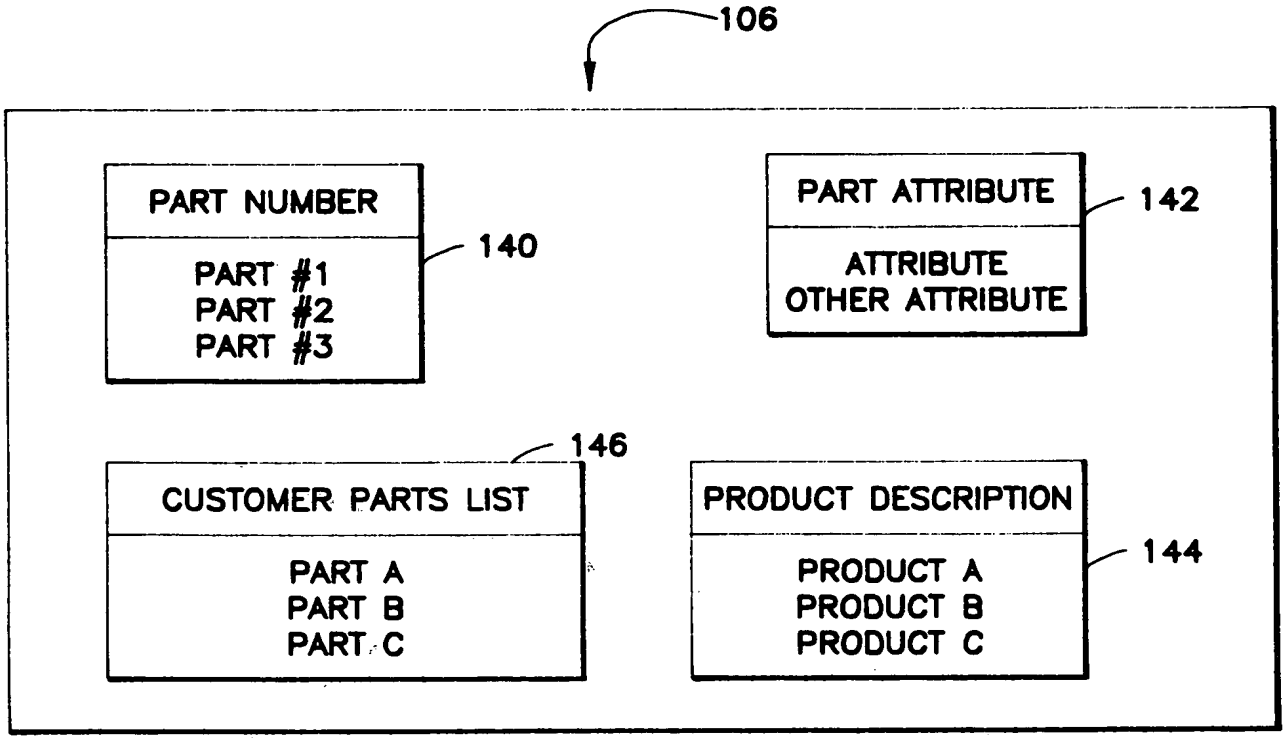

106
PART NUMBER
PART #1
PART #2
PART #3
140
PART ATTRIBUTE
ATTRIBUTE
OTHER ATTRIBUTE
142
146
CUSTOMER PARTS LIST
PART A
PART B
PART C
PRODUCT DESCRIPTION
PRODUCT A
PRODUCT B
PRODUCT C
144

FIG. 1C


| SEQUENTIAL DISPLAY GENERATION | 148 |
|---|---|
| – COLOR SEQUENCE GENERATION | 150 |
| – CUSTOMIZED TEXT DISPLAY GENERATION | 152 |
| – CUSTOMIZED SEQUENCE GENERATION | 154 |
| ANIMATED DEMONSTRATION GENERATION | 156 |

FIG. 1D


| DEALER PERSONALIZATION | 157 |
|---|---|
| CUSTOMER PERSONALIZATION | 158 |
| RETRIEVE STORED REPORT | 160 |
| UPDATE REPORT | 162 |
| PRINTED GRAPHICS GENERATION | 164 |
| PRINTED COLOR GENERATION | 166 |

FIG. 2

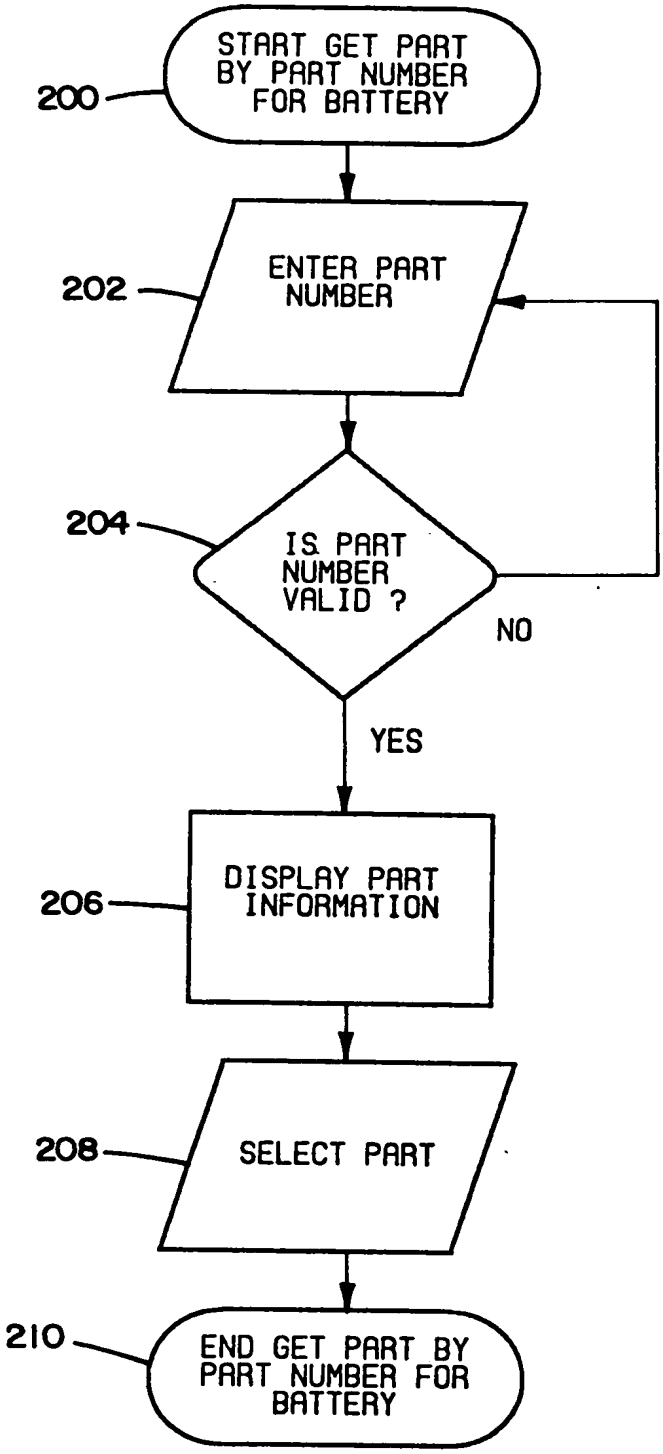


FIG. 3A



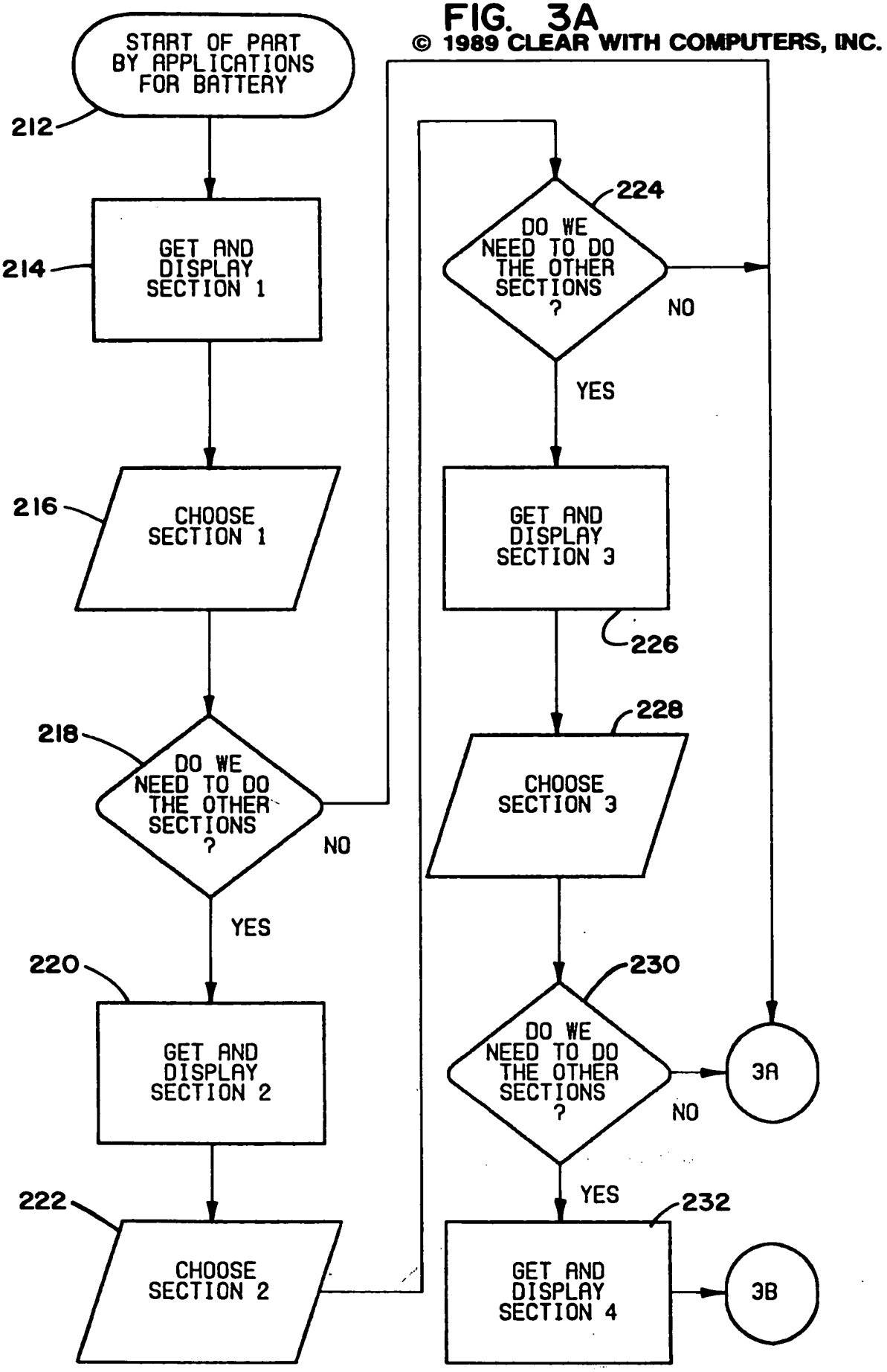


FIG. 3B

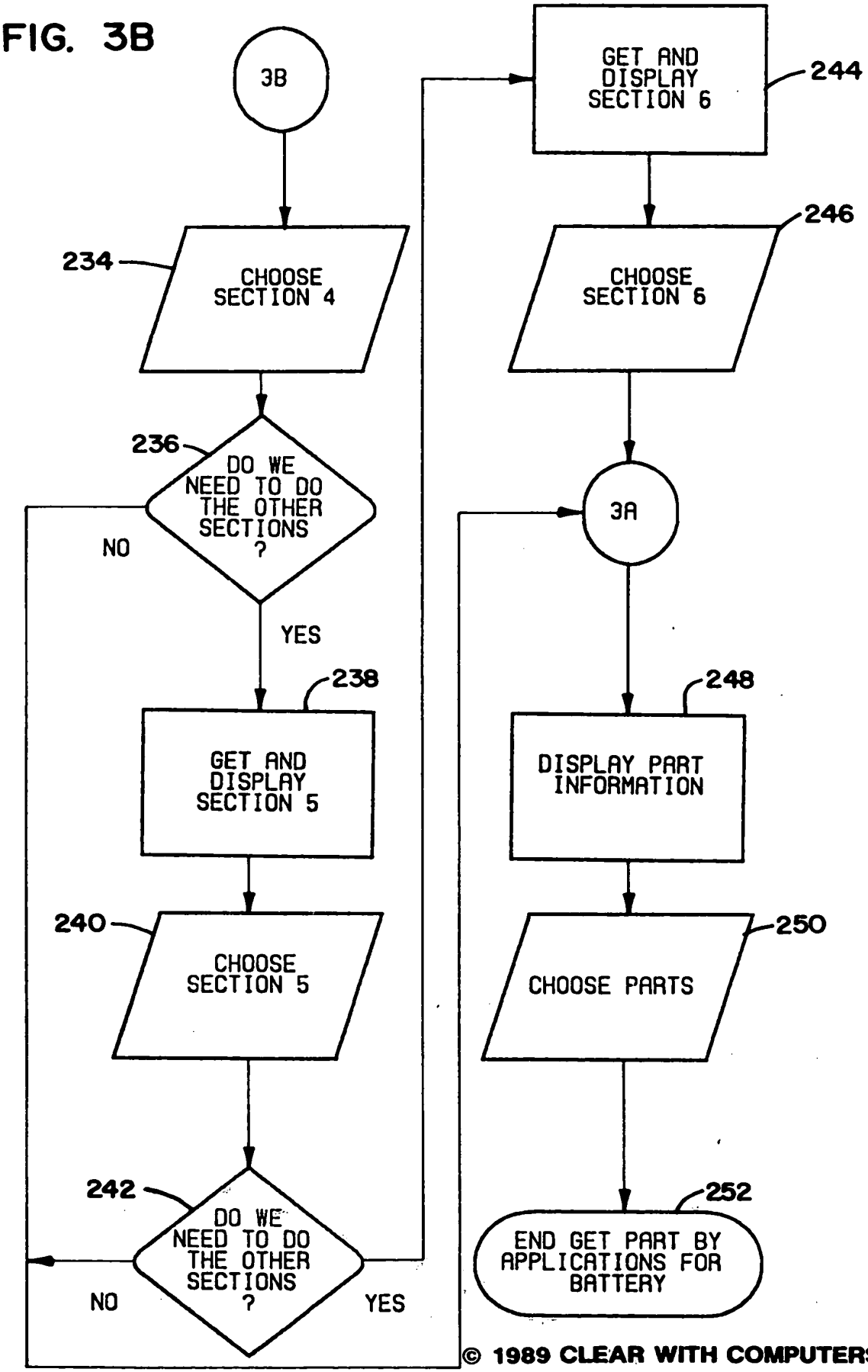
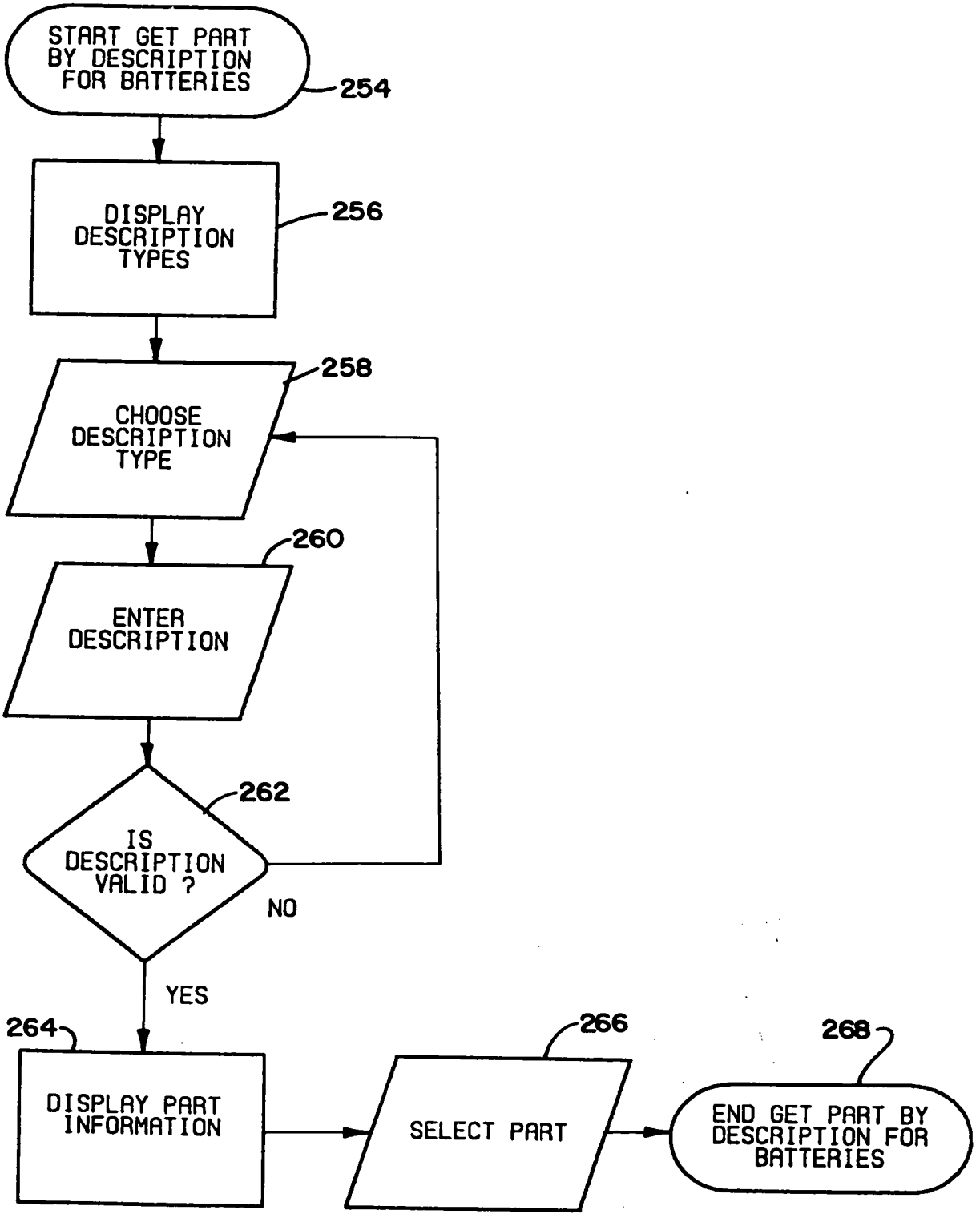


FIG. 4



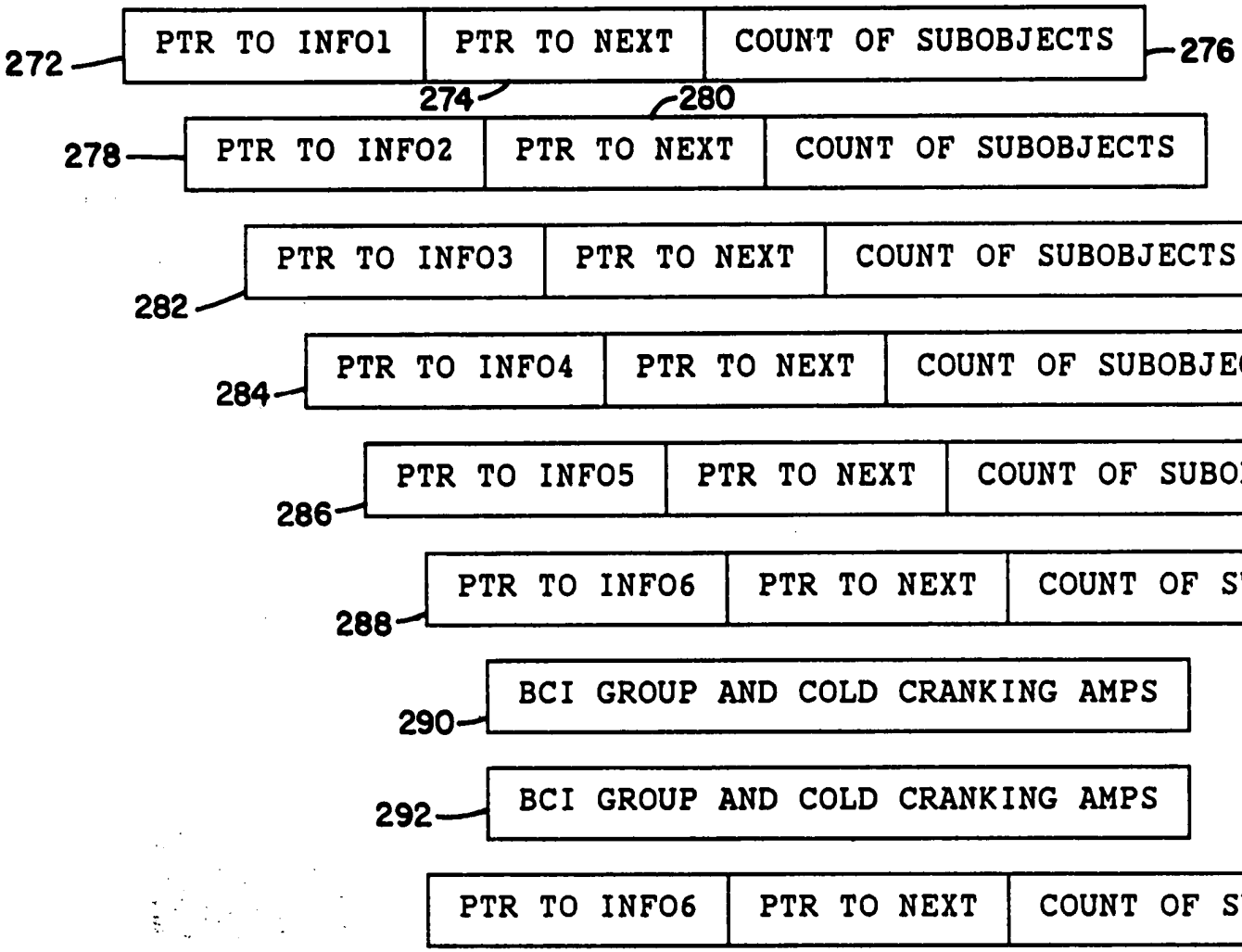



FIG. 5

FIG. 7

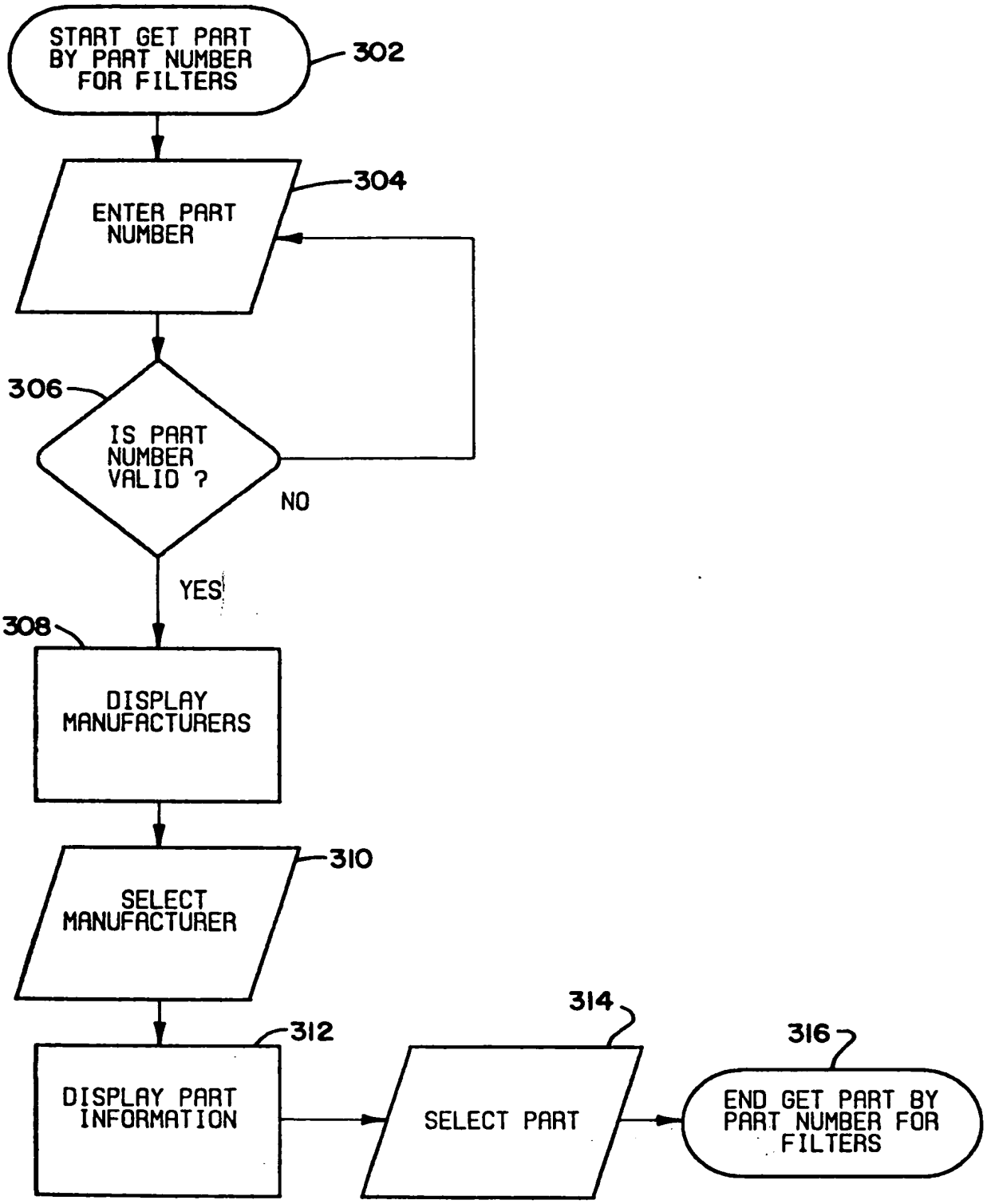
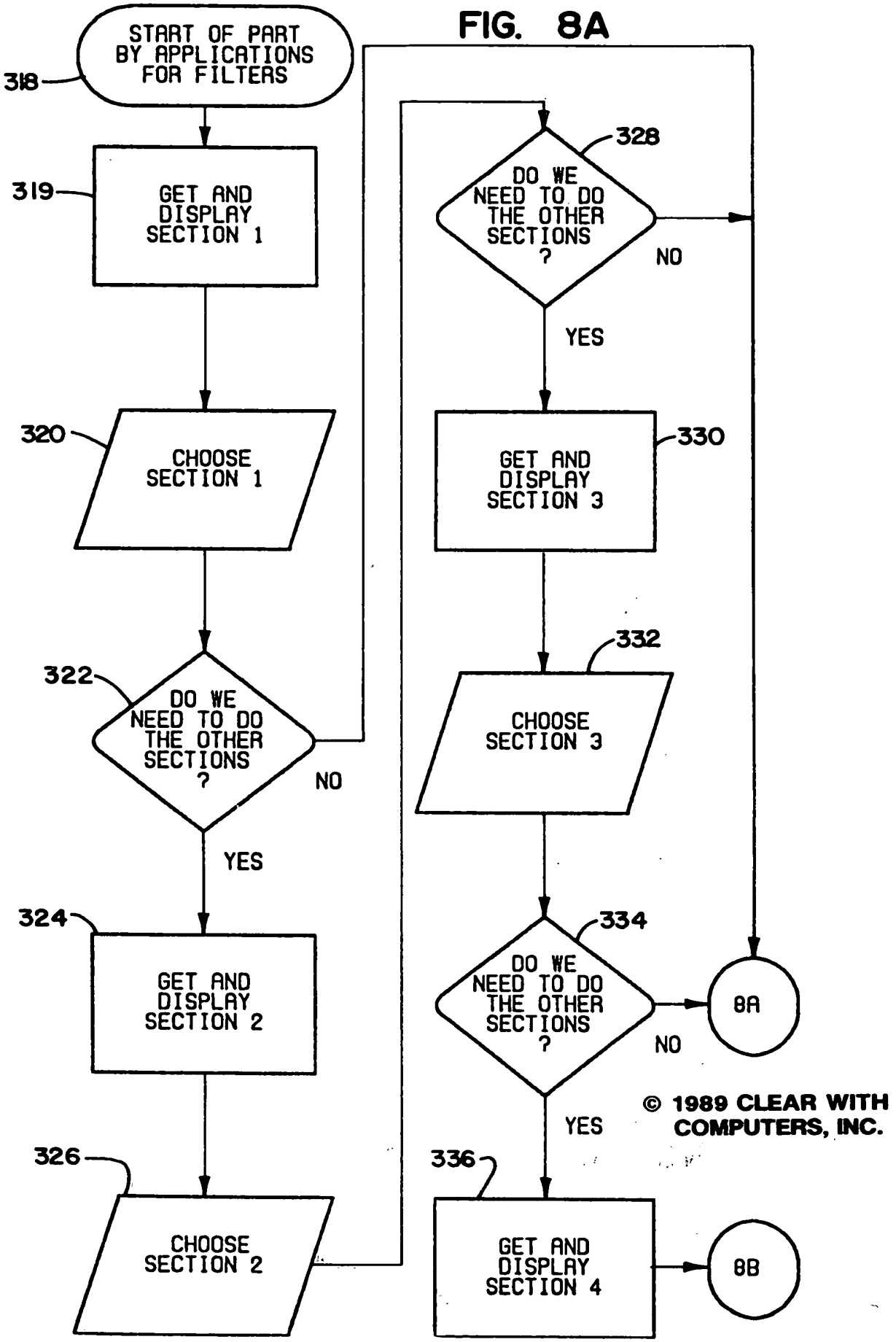


FIG. 8A



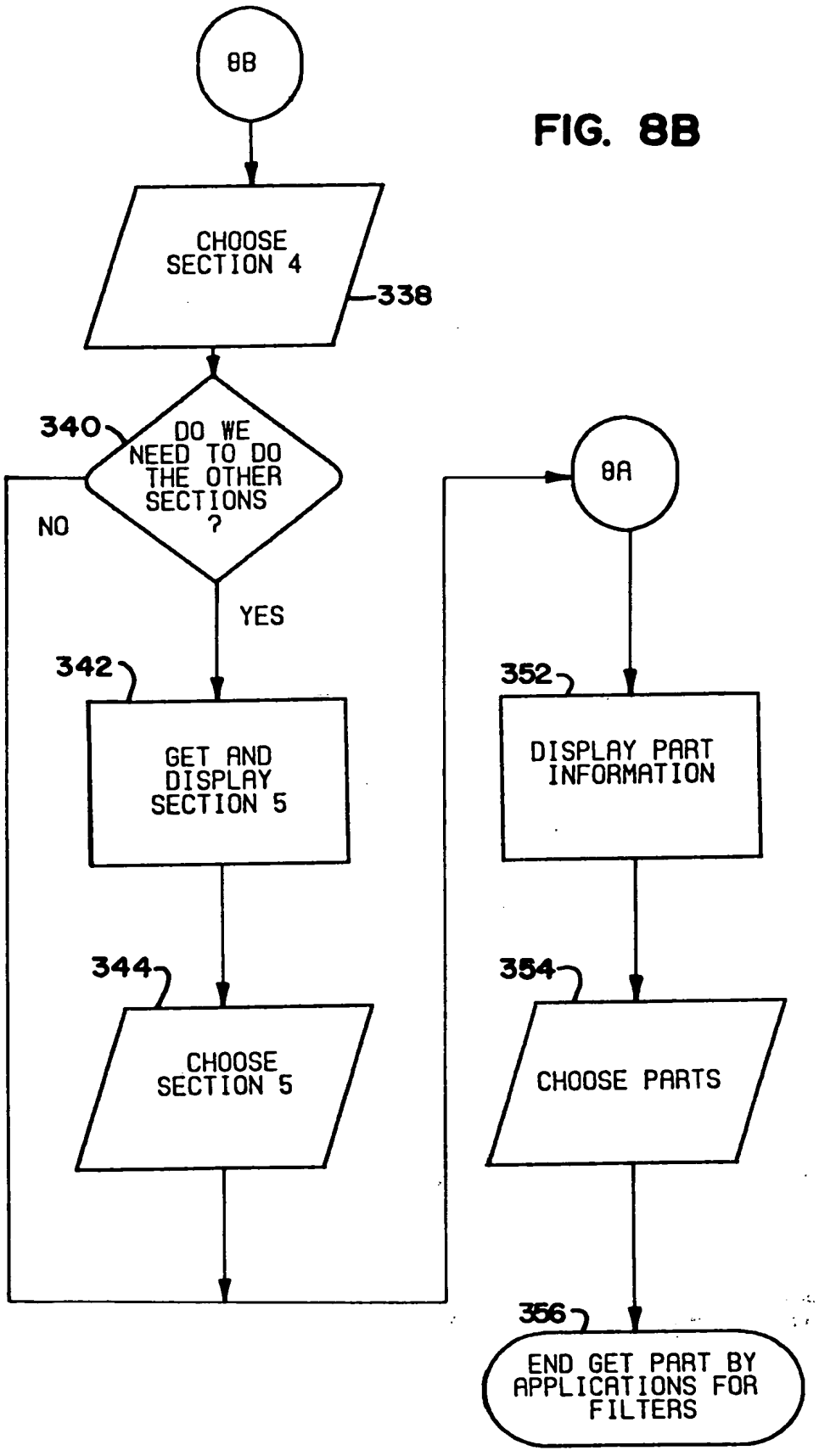



FIG. 8B

FIG. 9

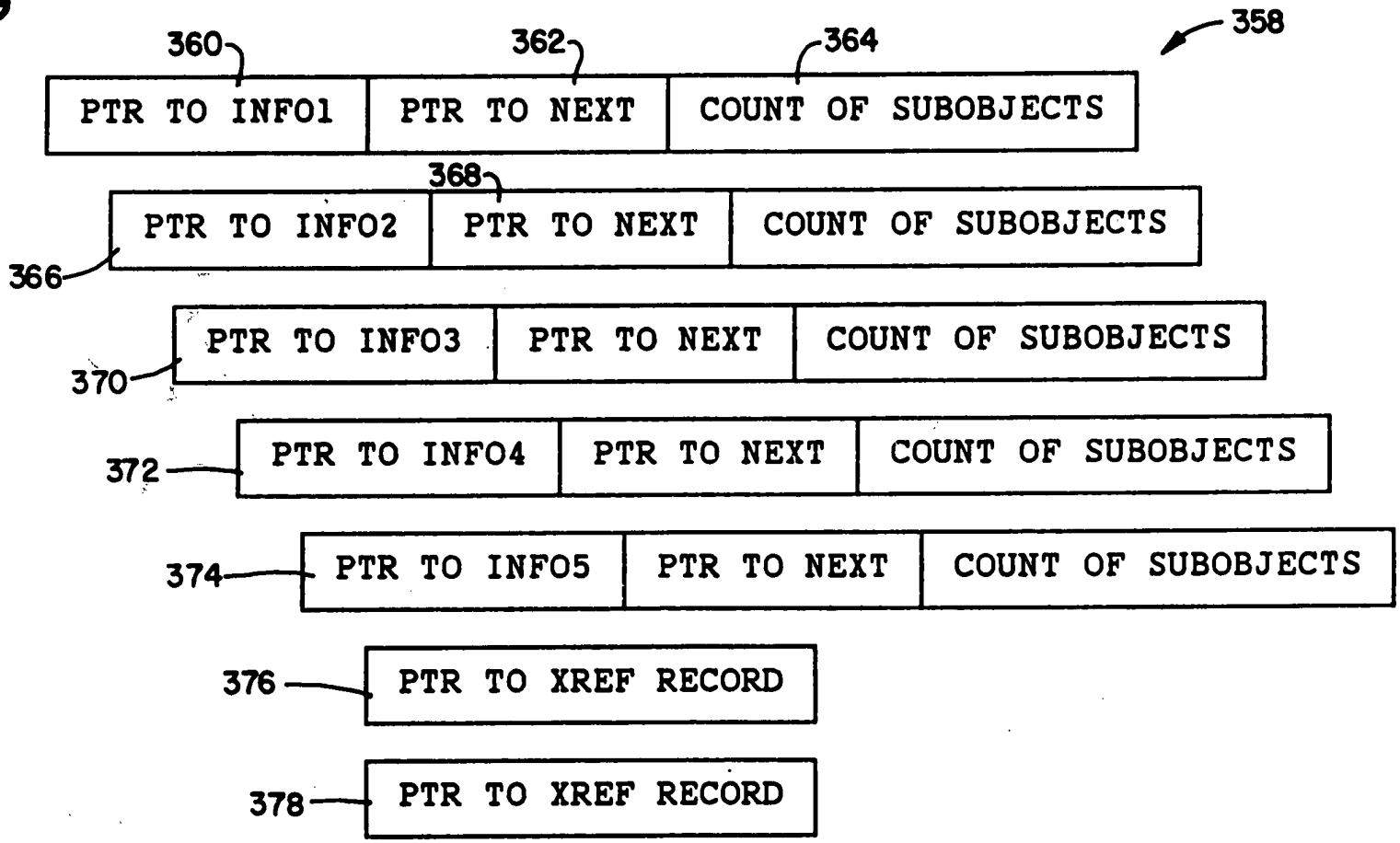


FIG. 10

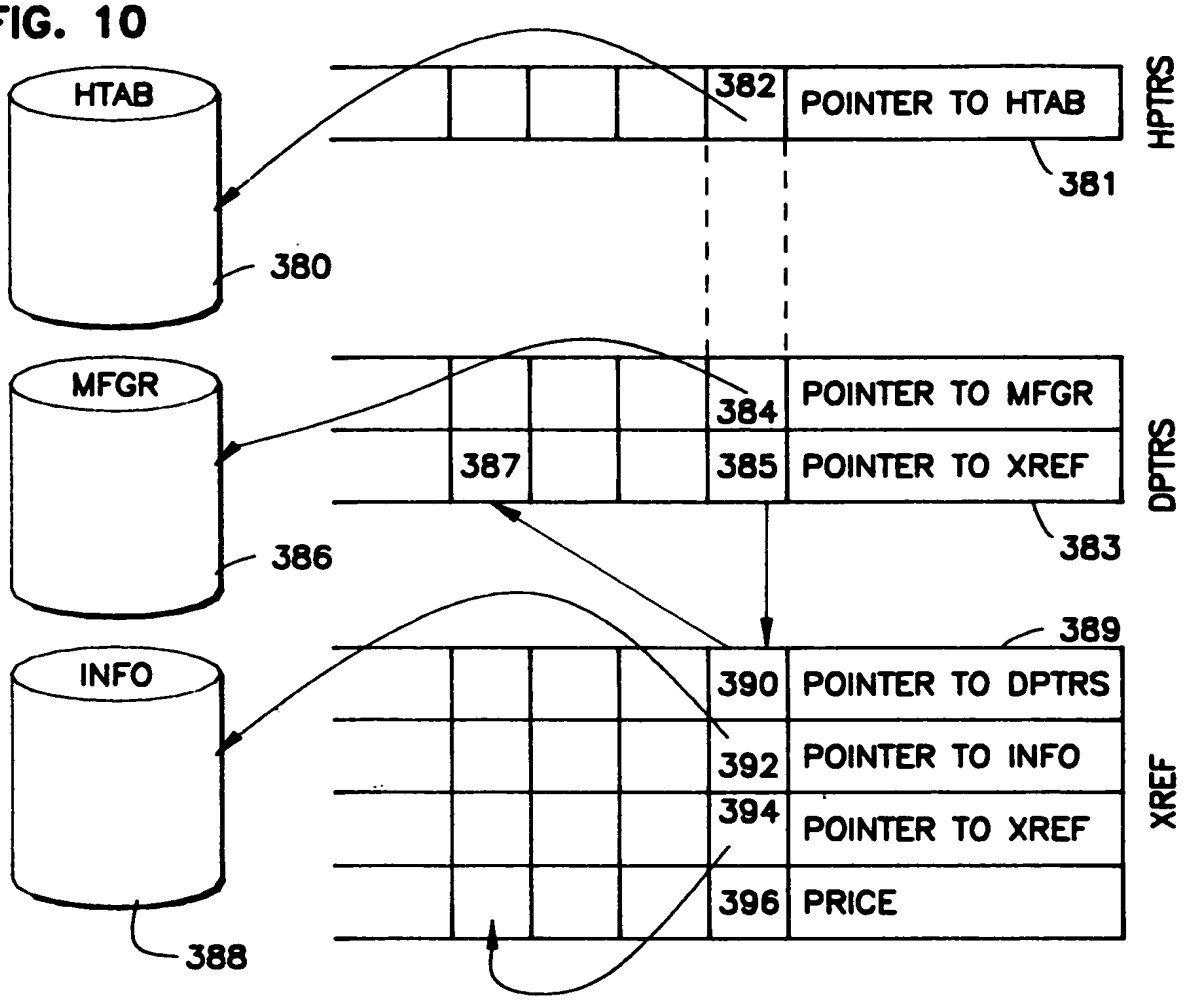



FIG. 14

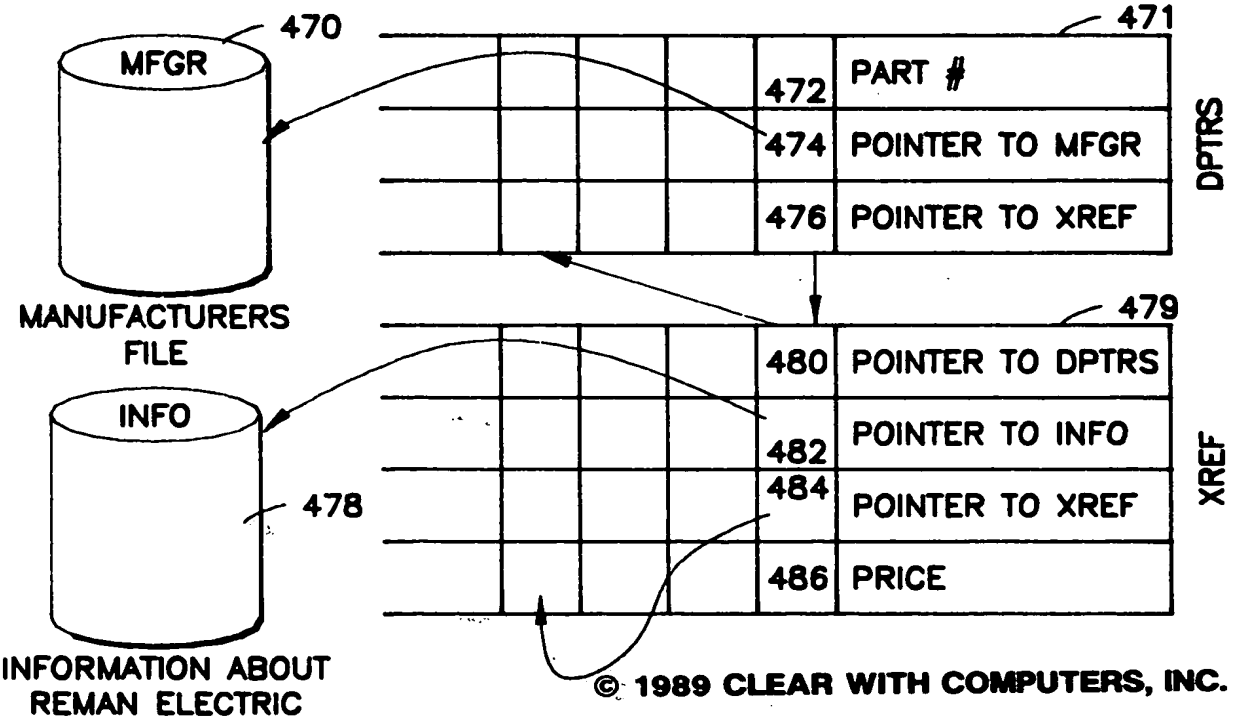


FIG. 11

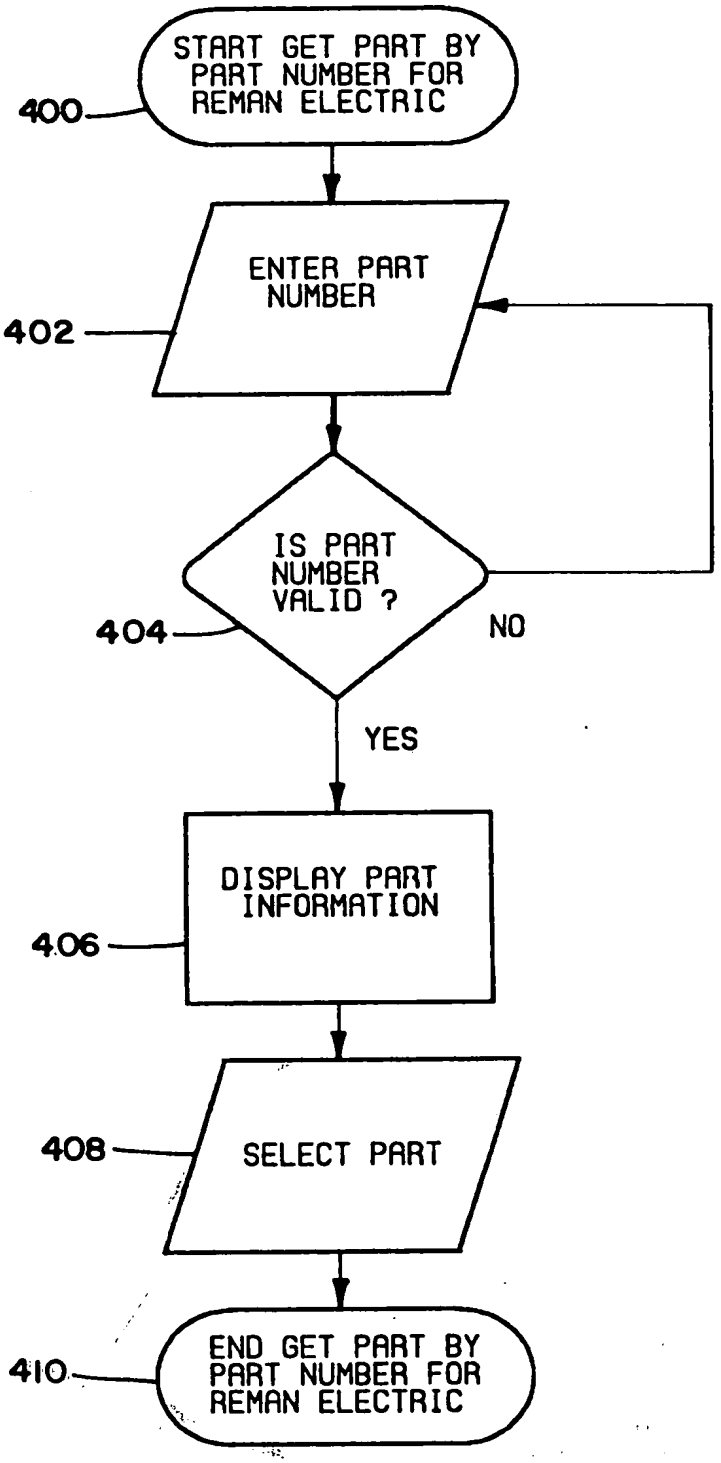


FIG. 12A

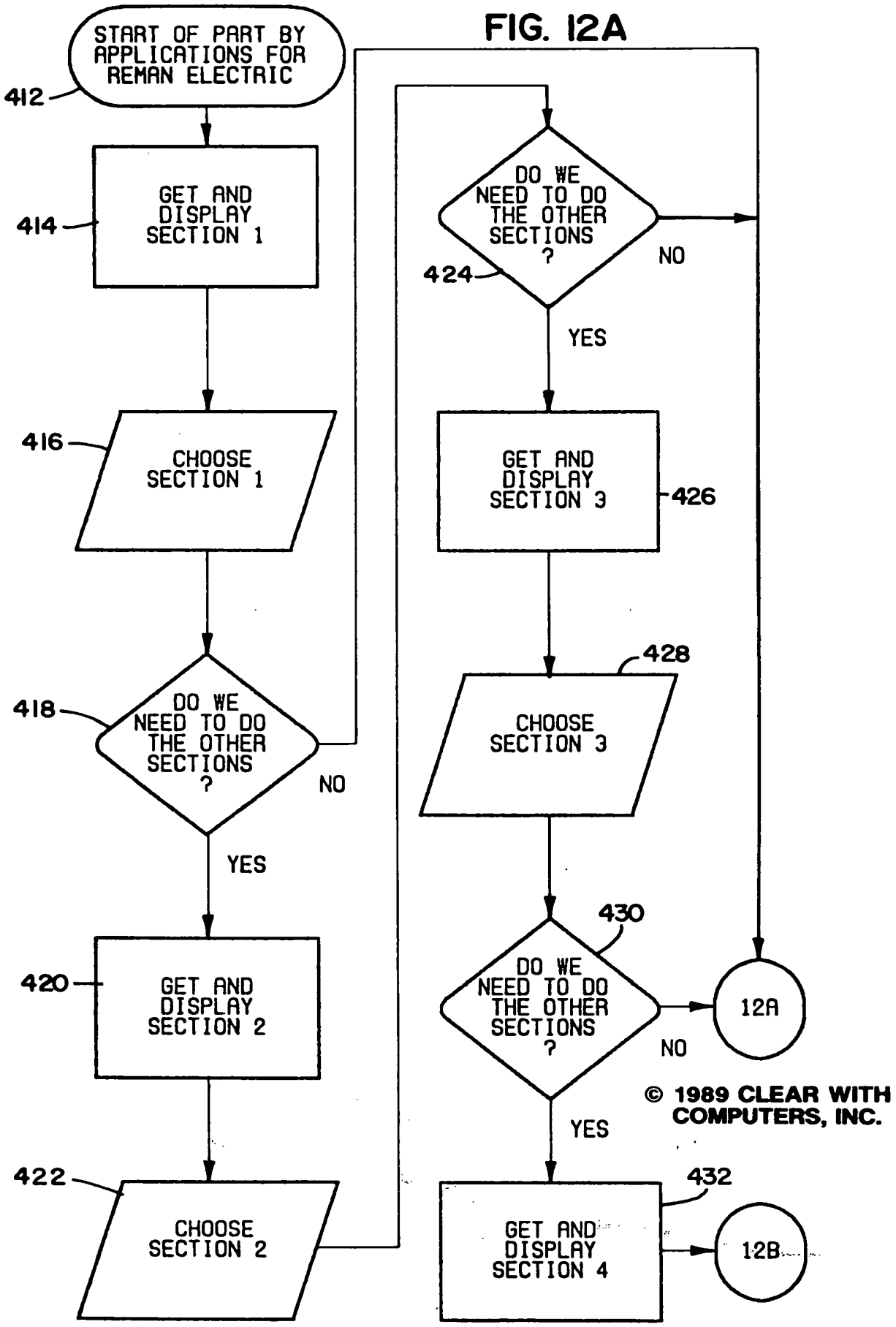


FIG. 12B

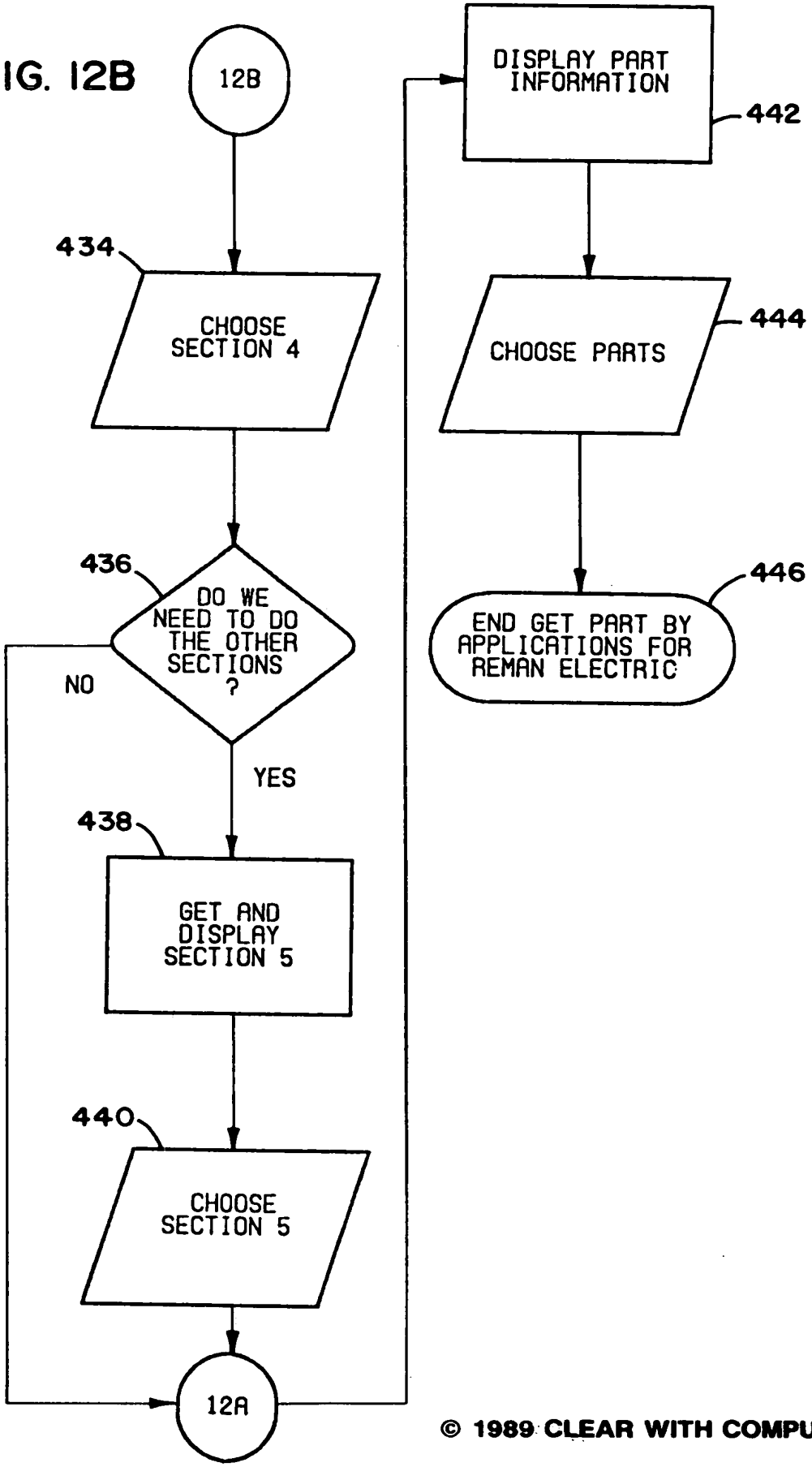


FIG. 13

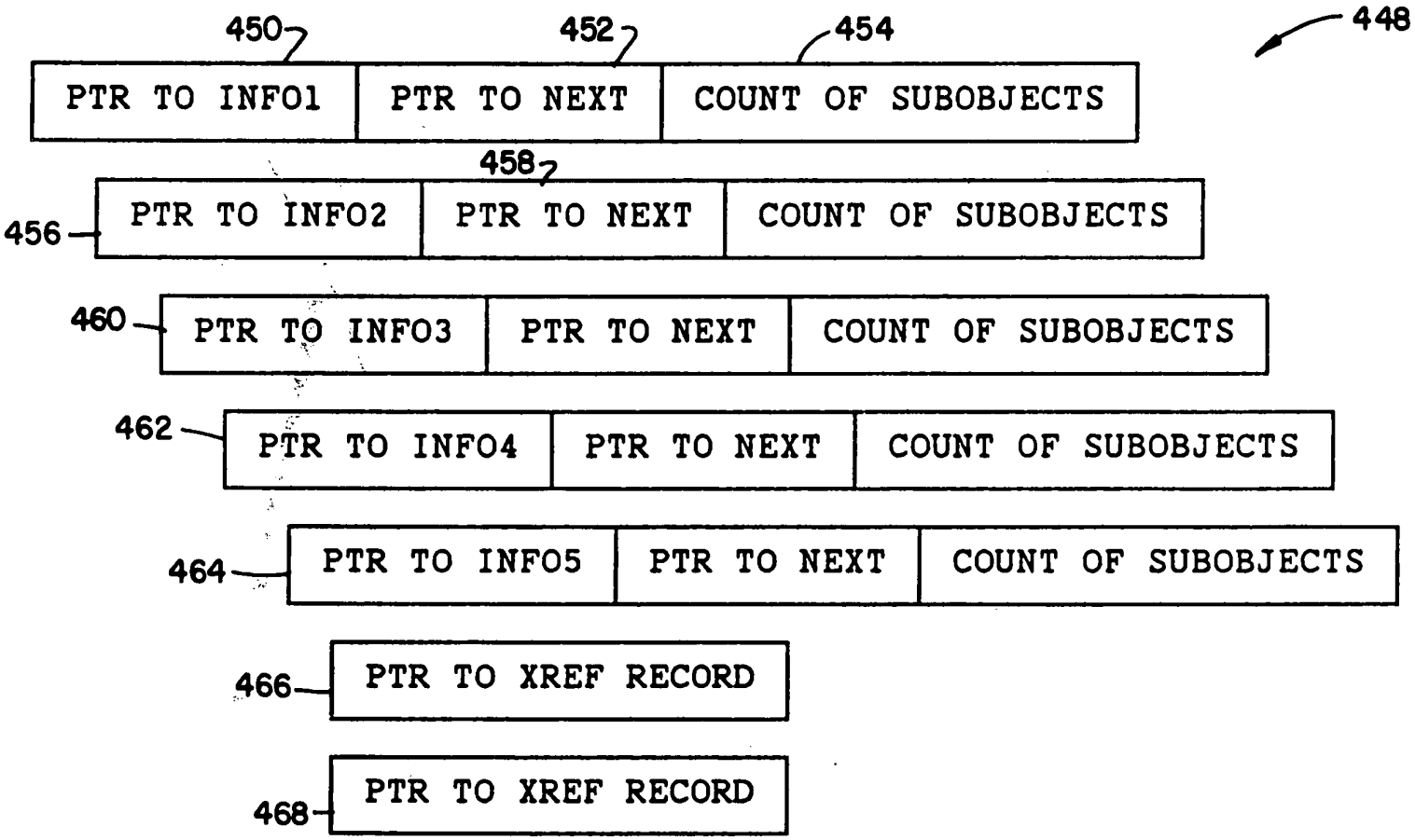
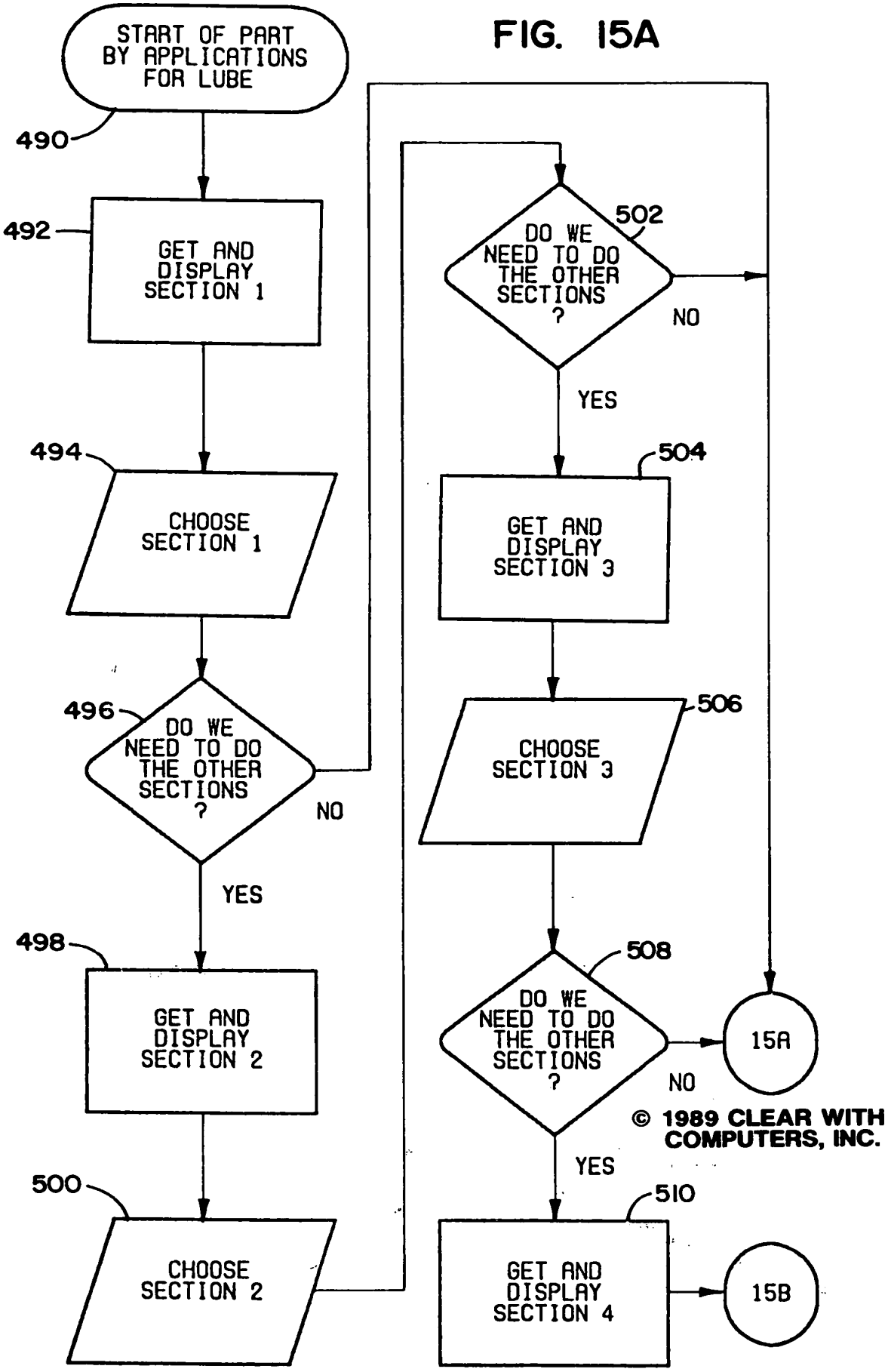


FIG. 15A



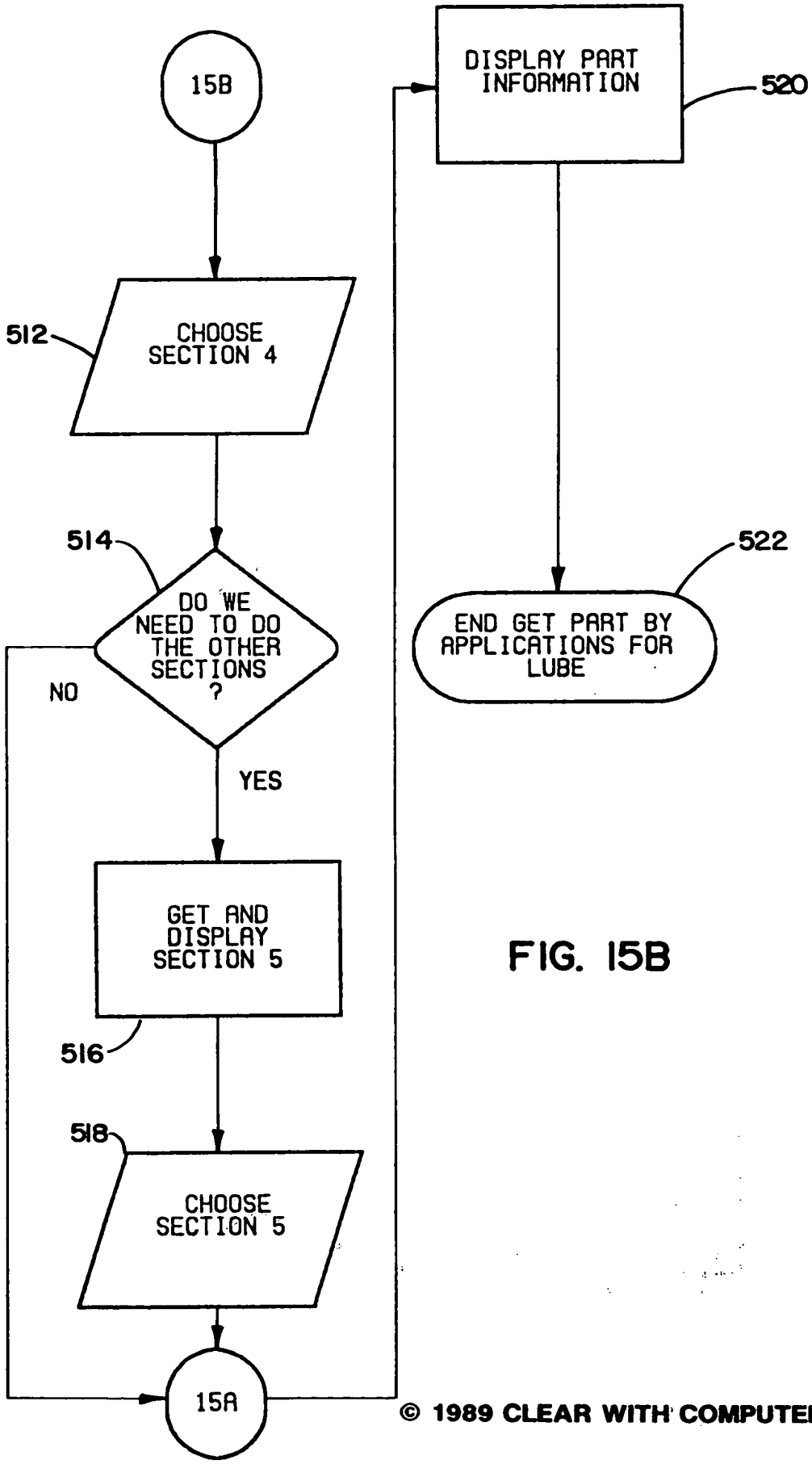



FIG. 15B

FIG. 16

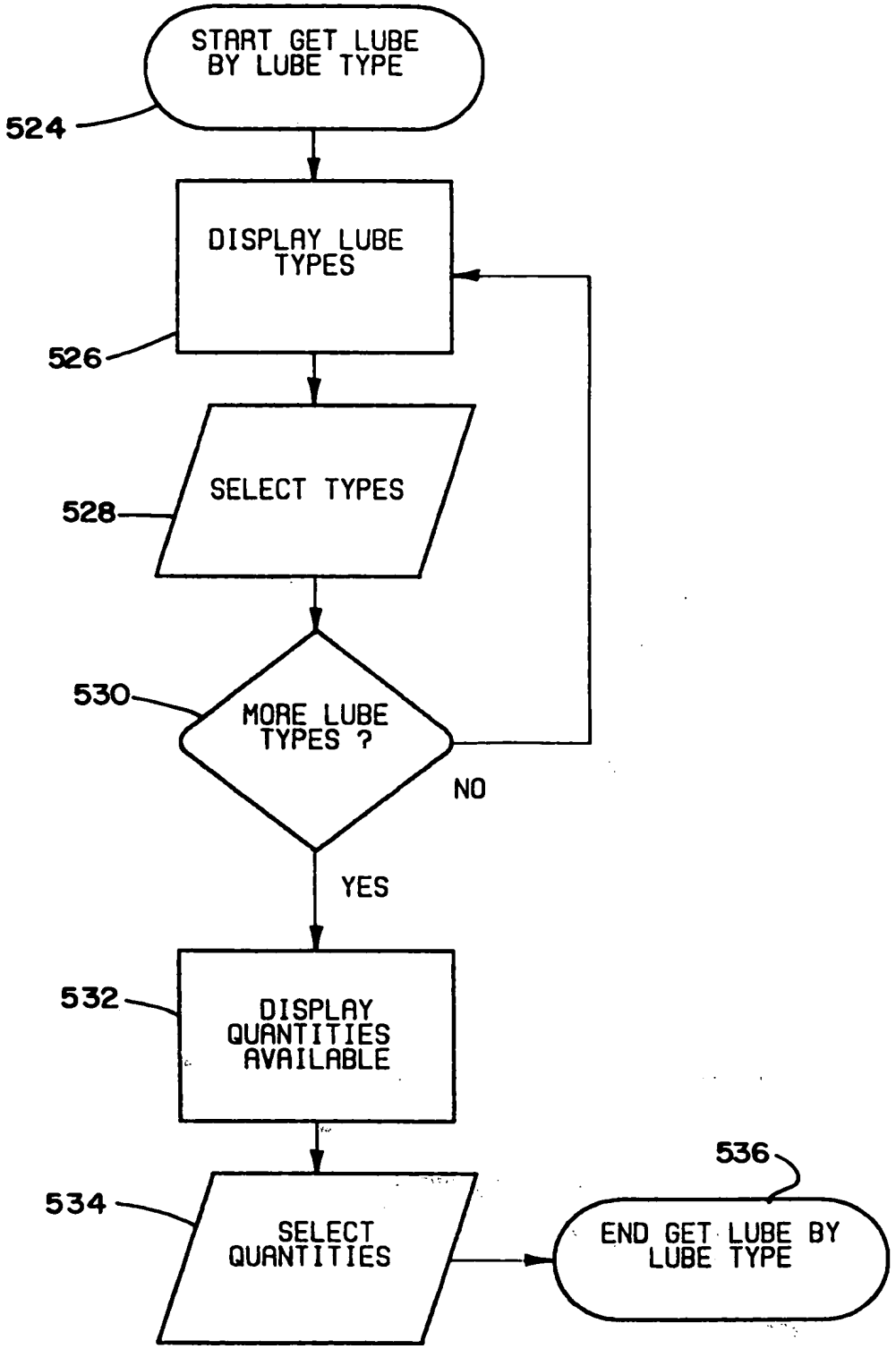
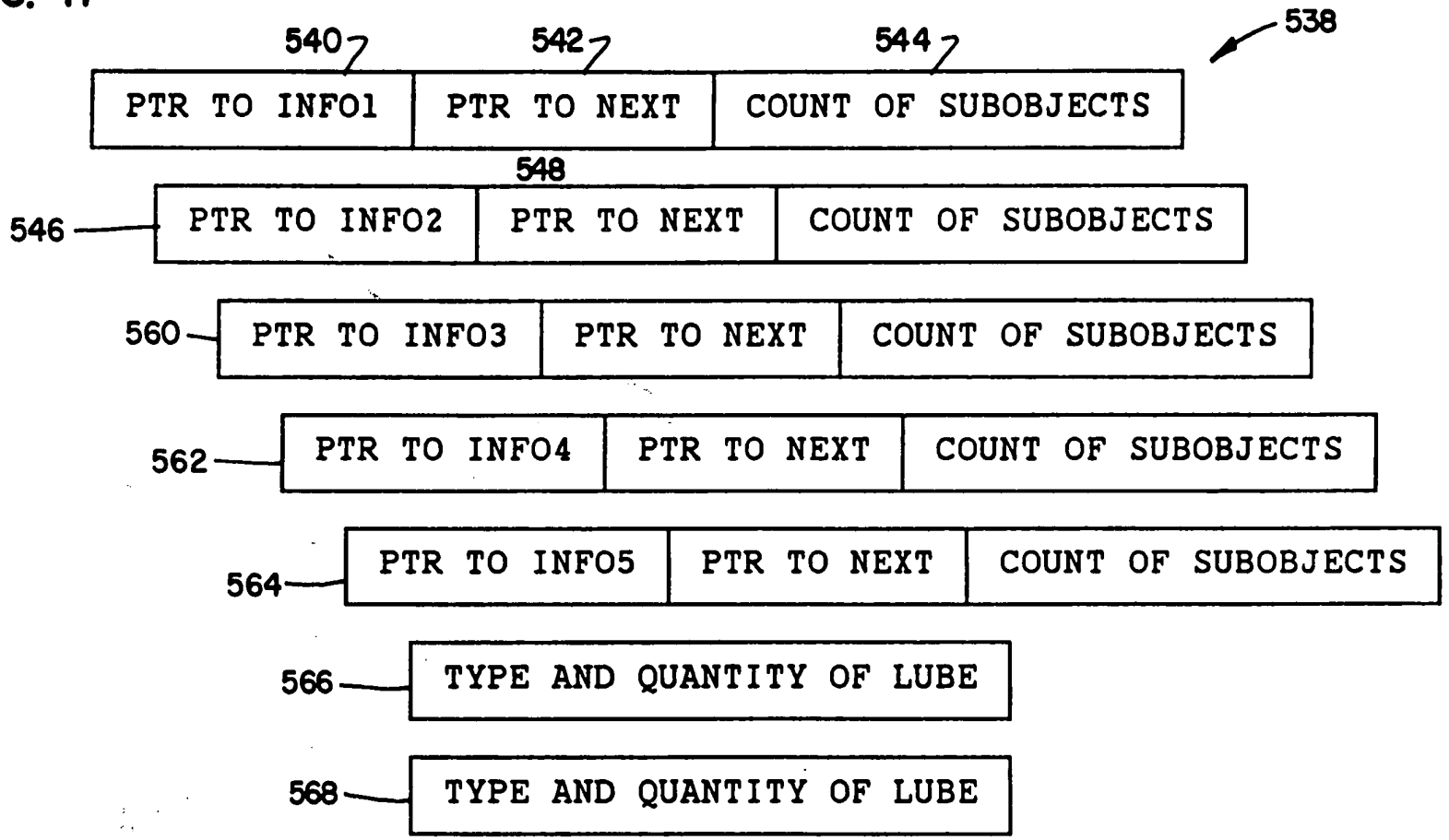


FIG. 17



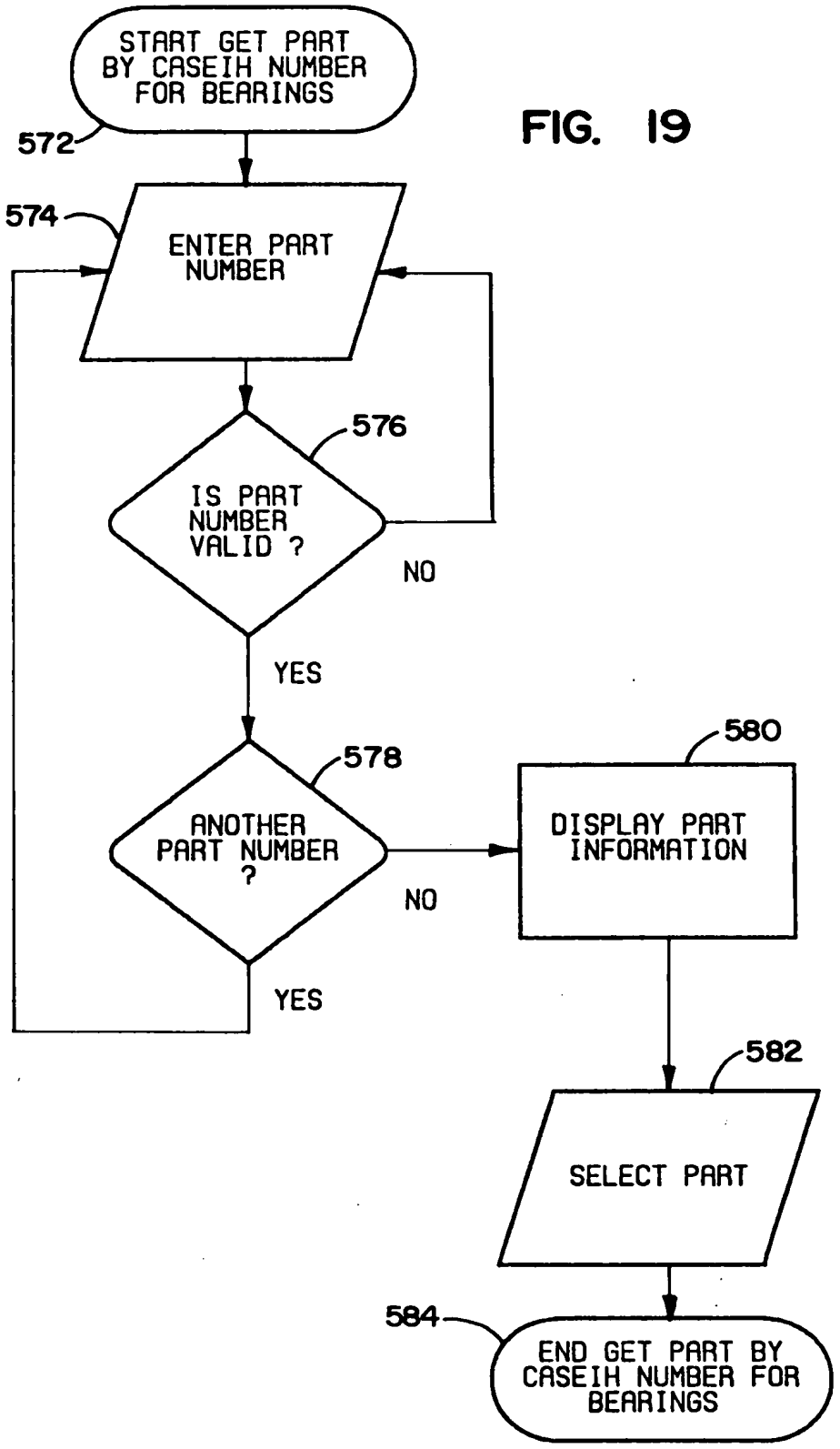
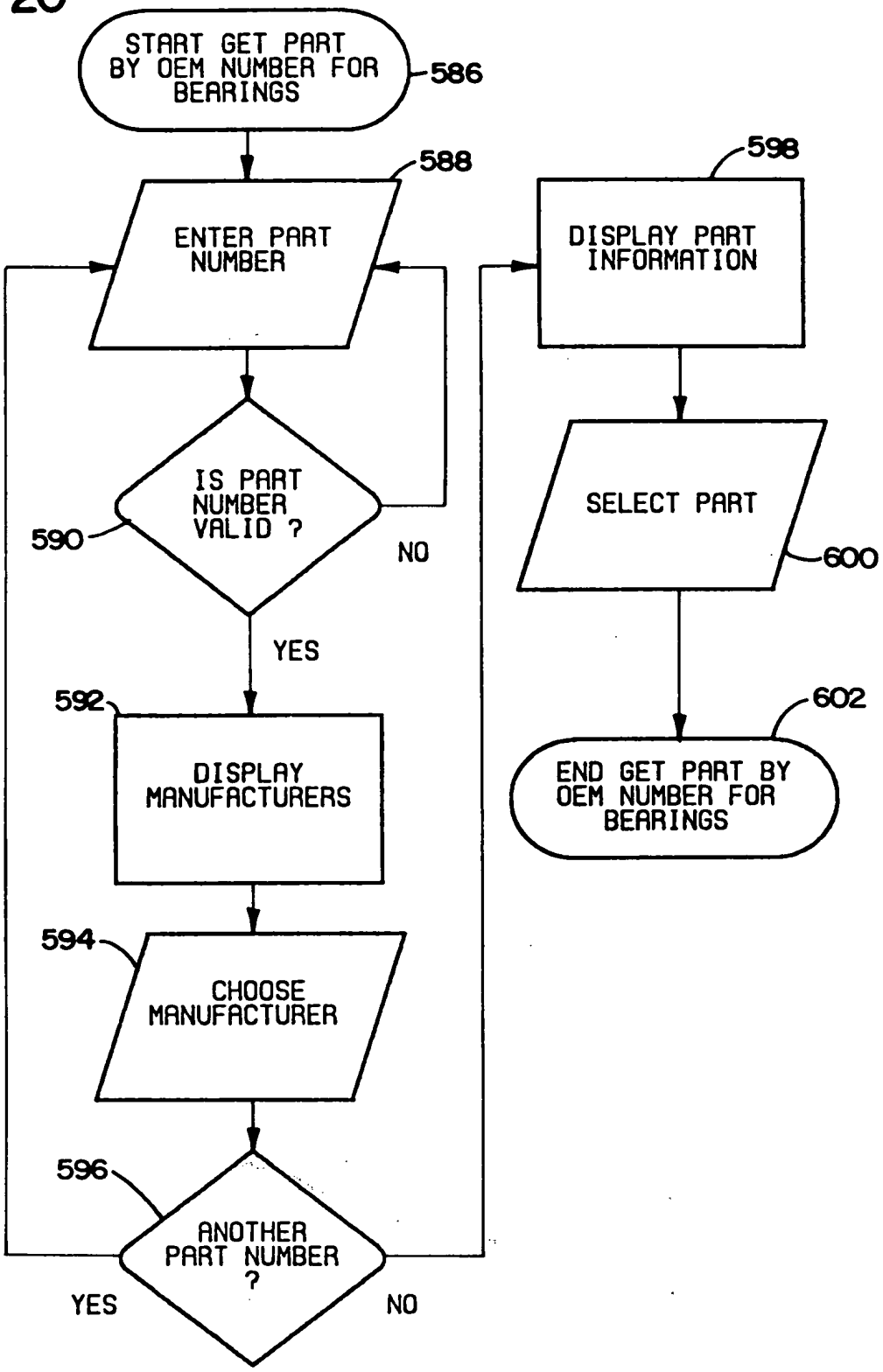



FIG. 19

FIG. 20



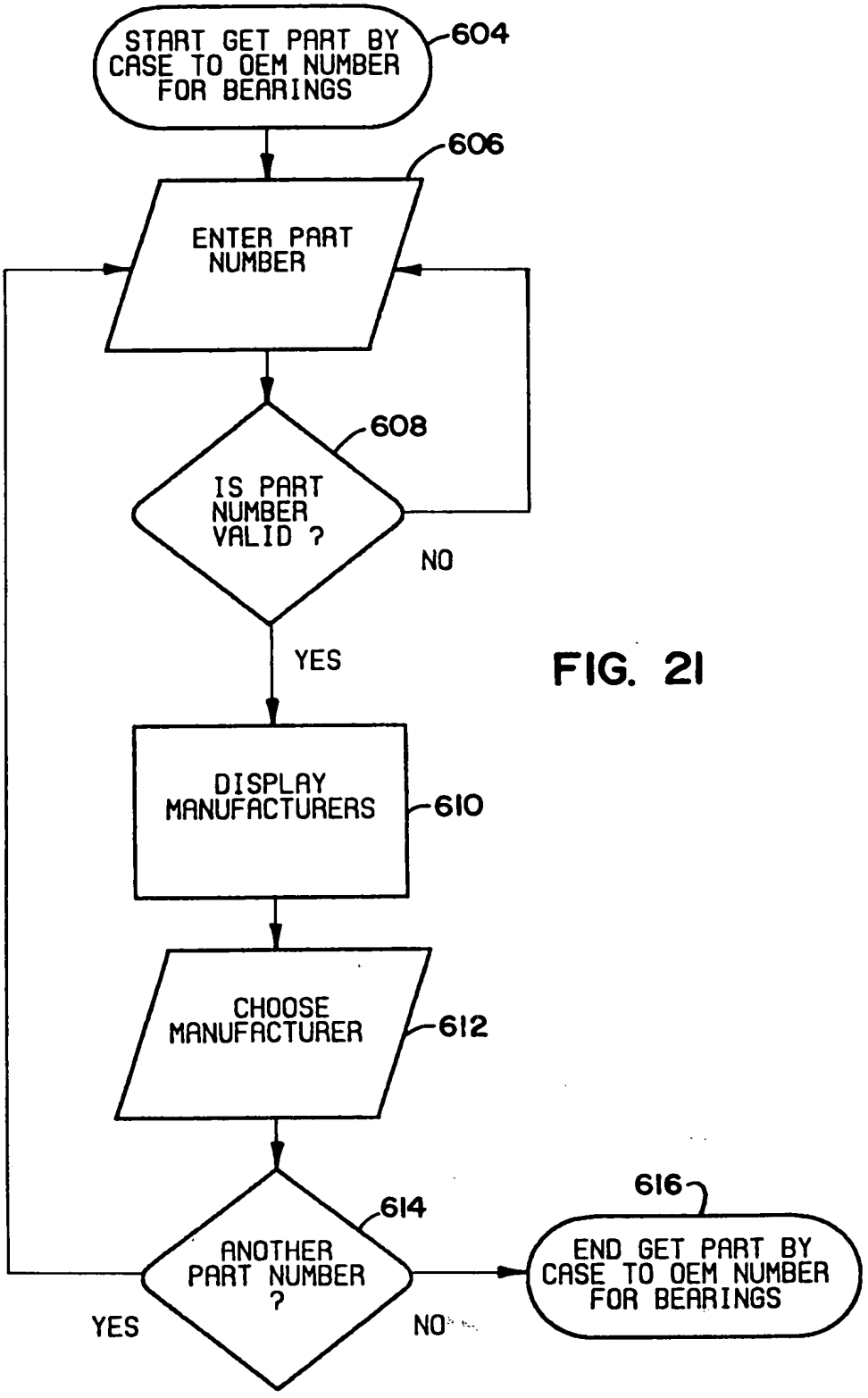



FIG. 21

FIG. 22

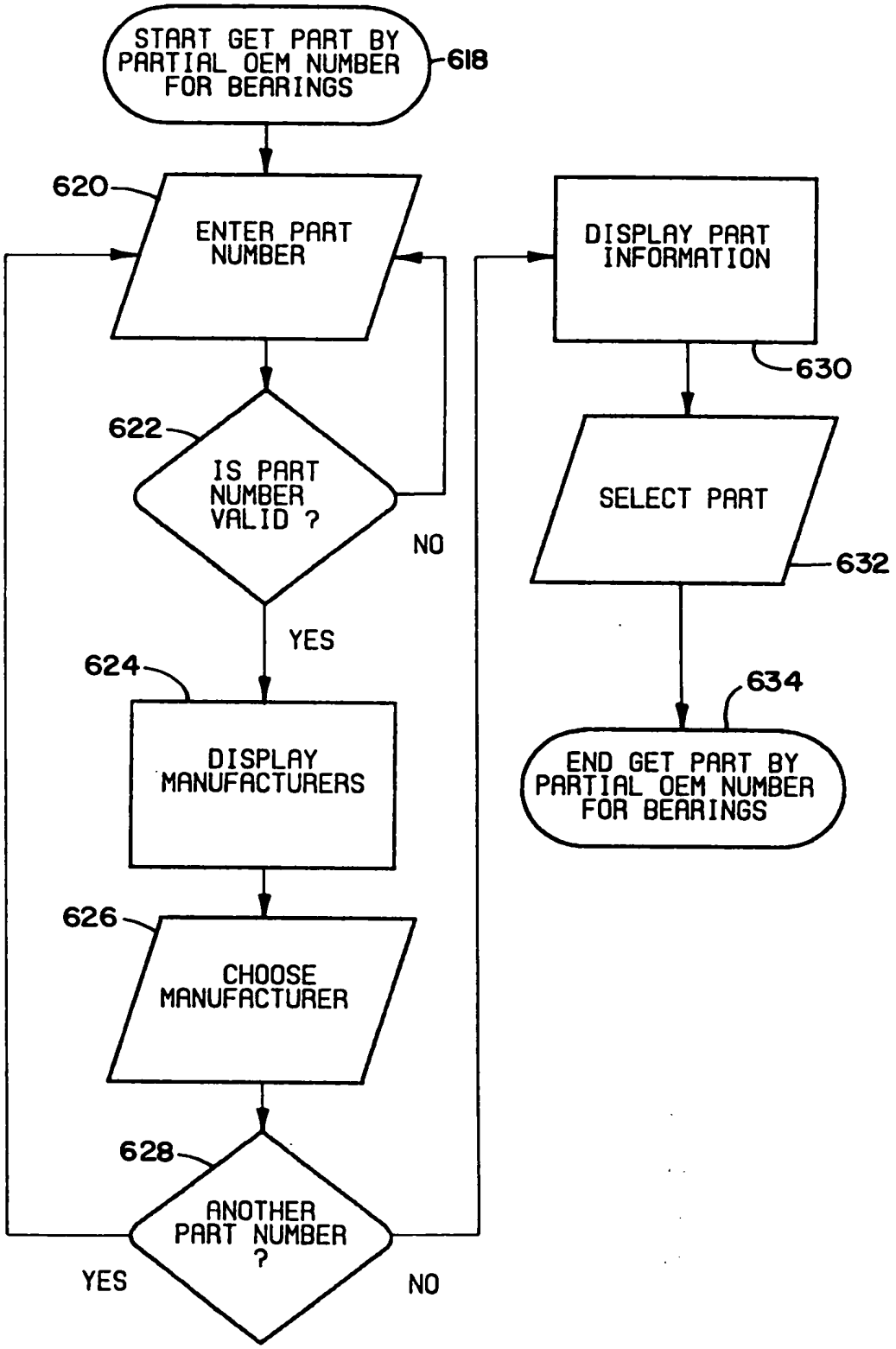


FIG. 23

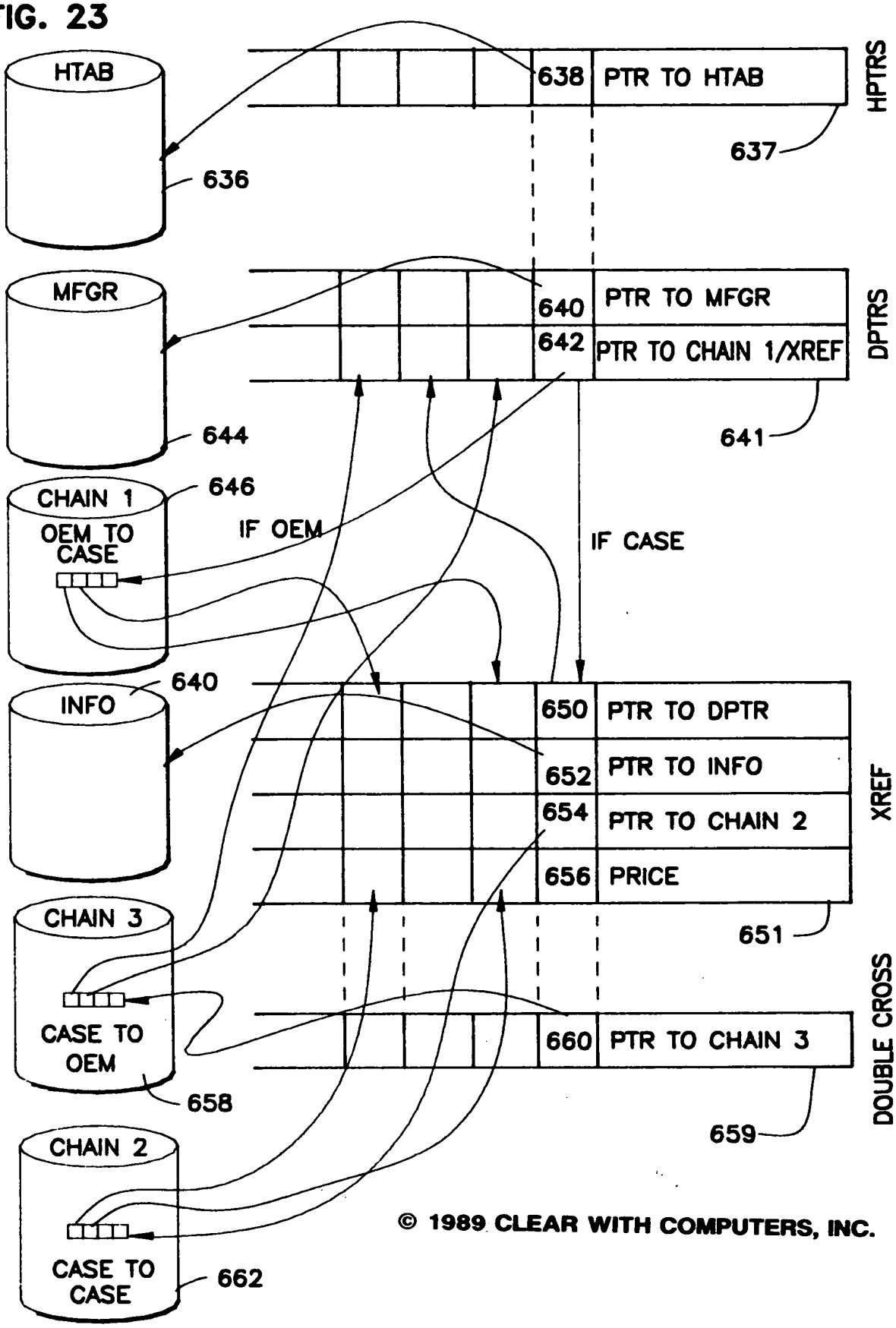

HTAB
636
638
PTR TO HTAB
HPTRS
637
MFGR
644
640
PTR TO MFGR
642
PTR TO CHAIN 1/XREF
DPTRS
641
CHAIN 1
646
OEM TO CASE
IF OEM
IF CASE
INFO
640
650
PTR TO DPTR
652
PTR TO INFO
654
PTR TO CHAIN 2
656
PRICE
XREF
651
CHAIN 3
CASE TO OEM
658
660
PTR TO CHAIN 3
DOUBLE CROSS
659
CHAIN 2
CASE TO CASE
662
© 1989 CLEAR WITH COMPUTERS, INC.

FIG. 24A

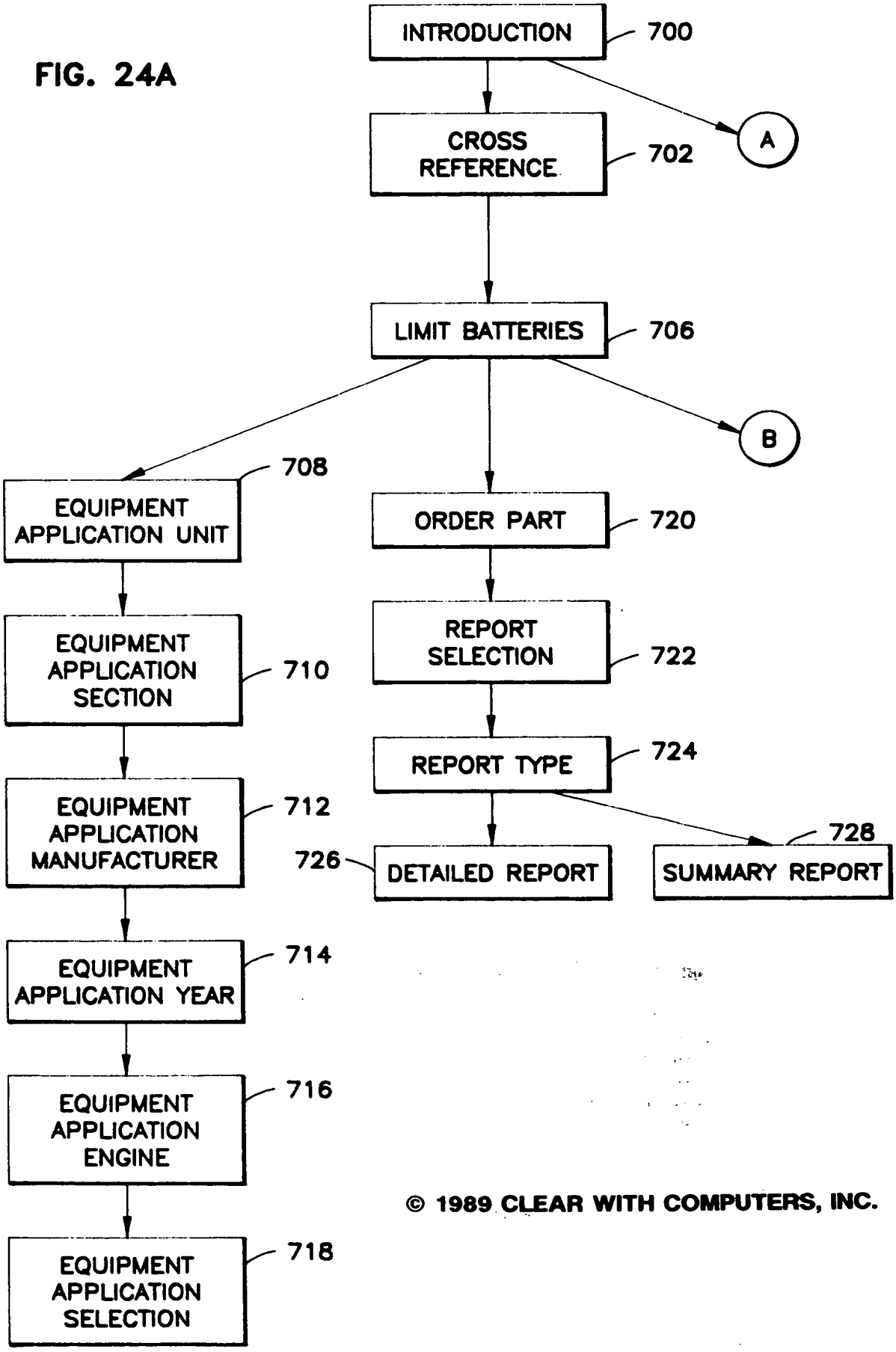


FIG. 24B

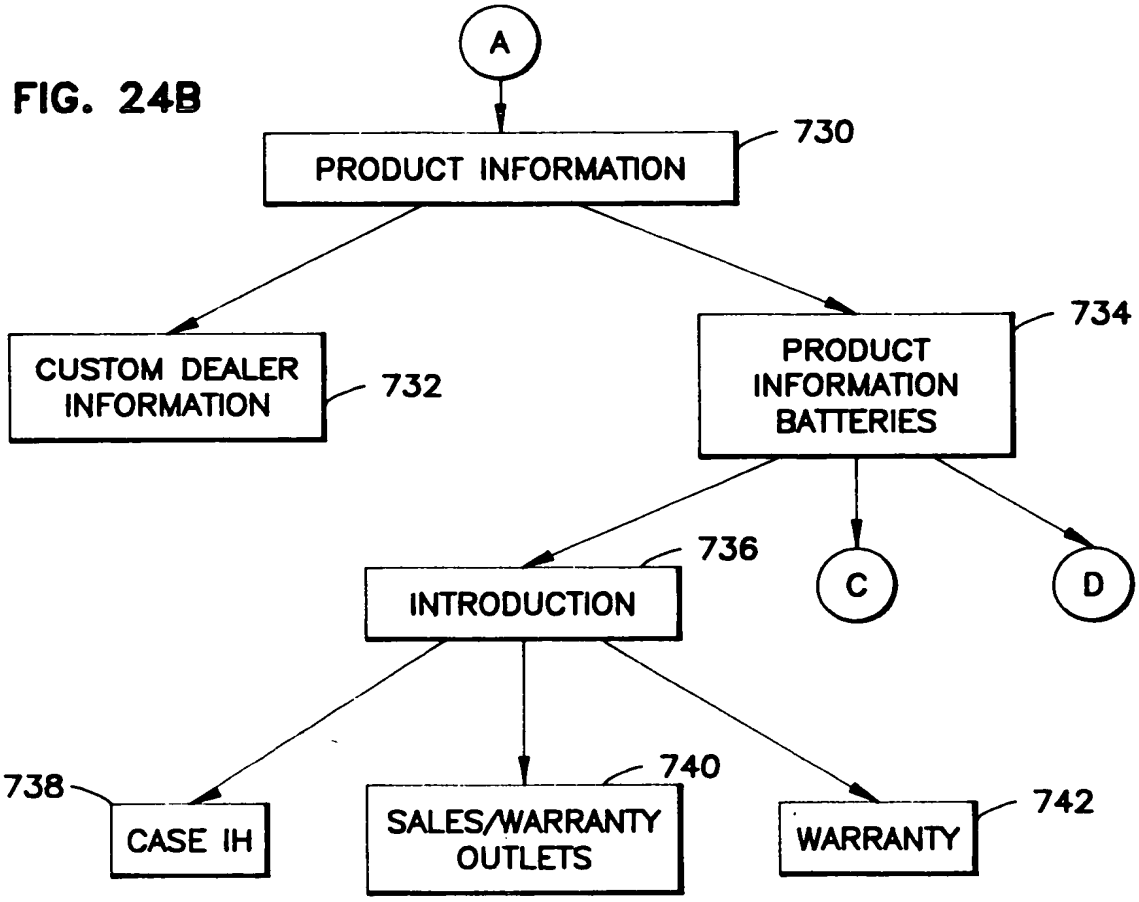



FIG. 24C

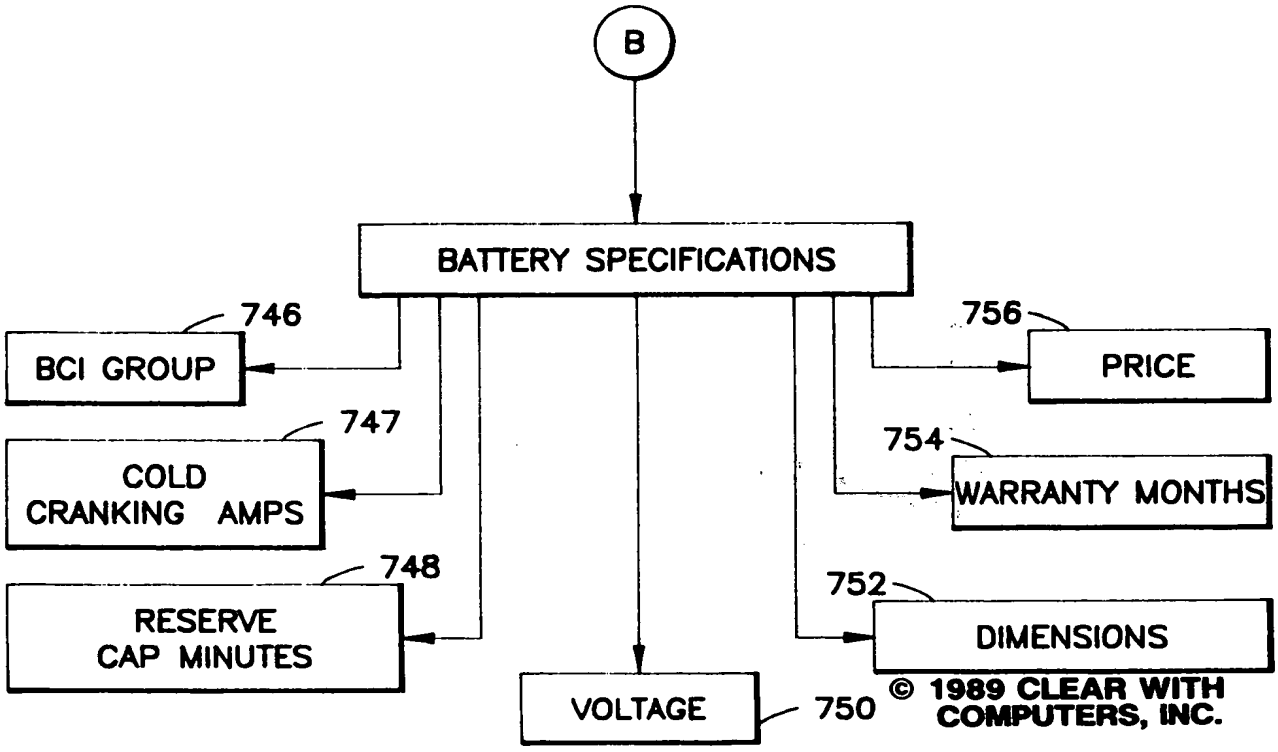


FIG. 24D

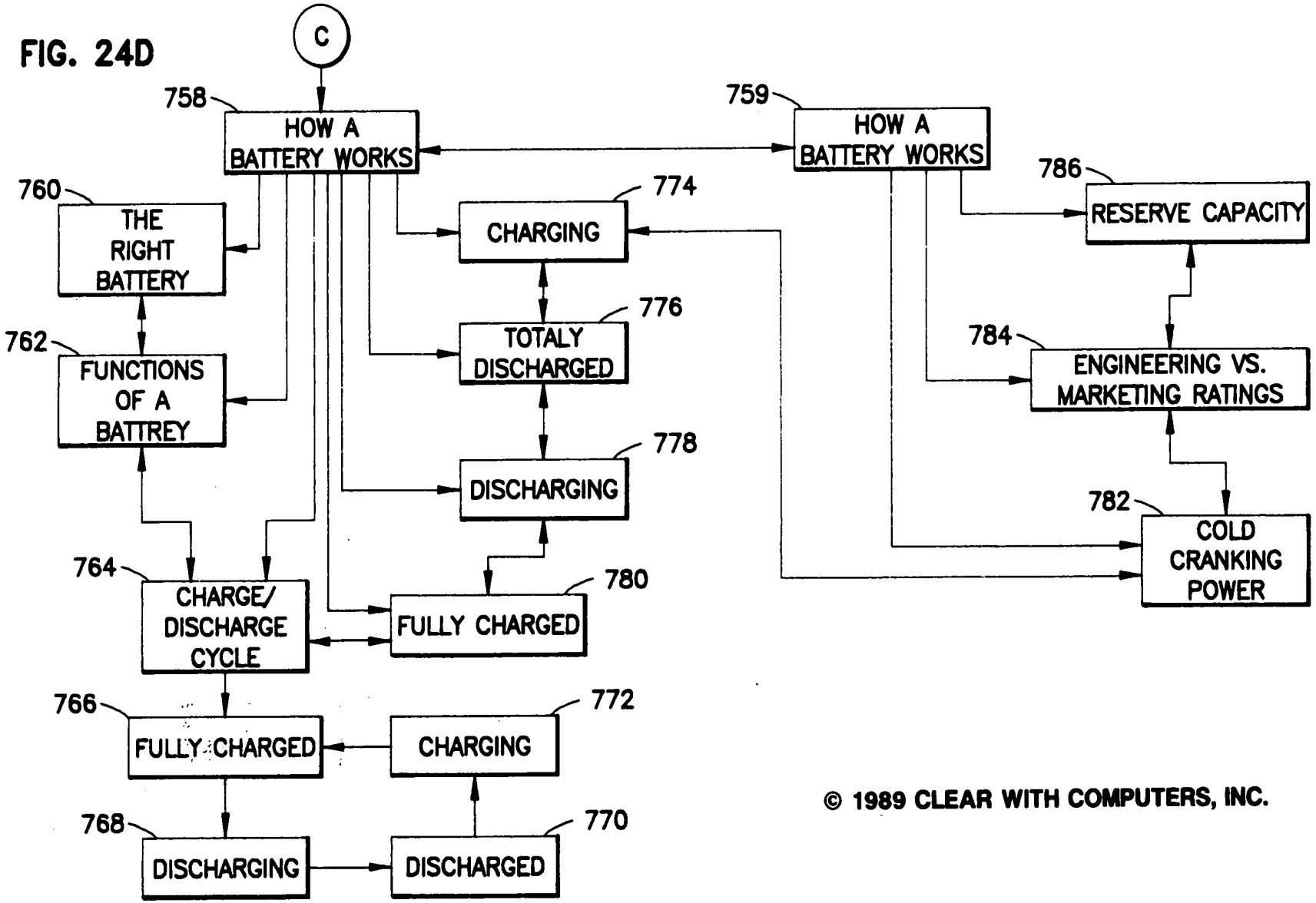


FIG. 24E

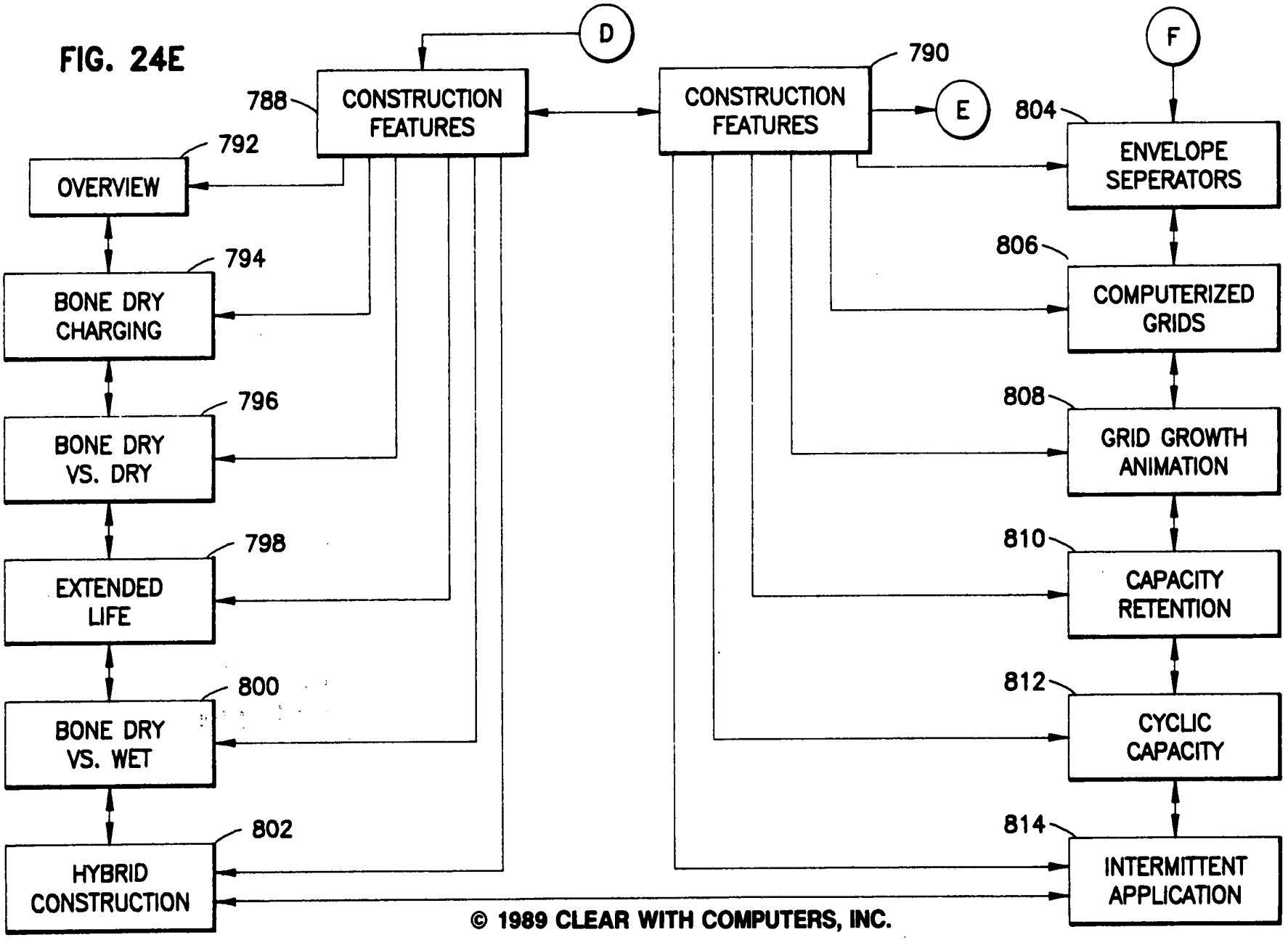


FIG. 24F

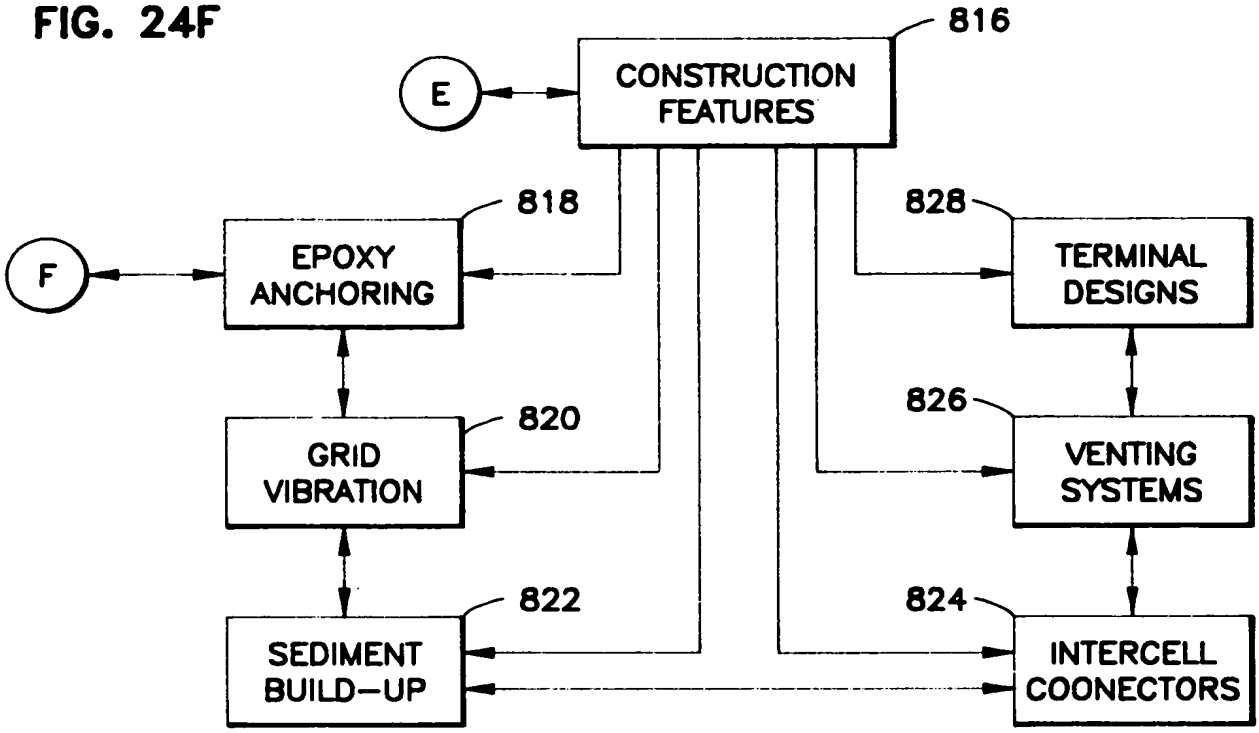



FIG. 18

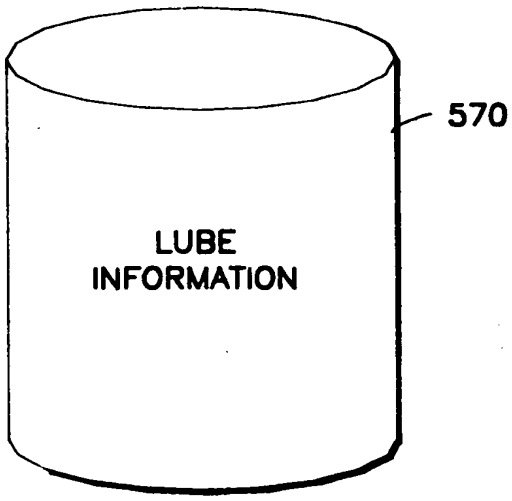
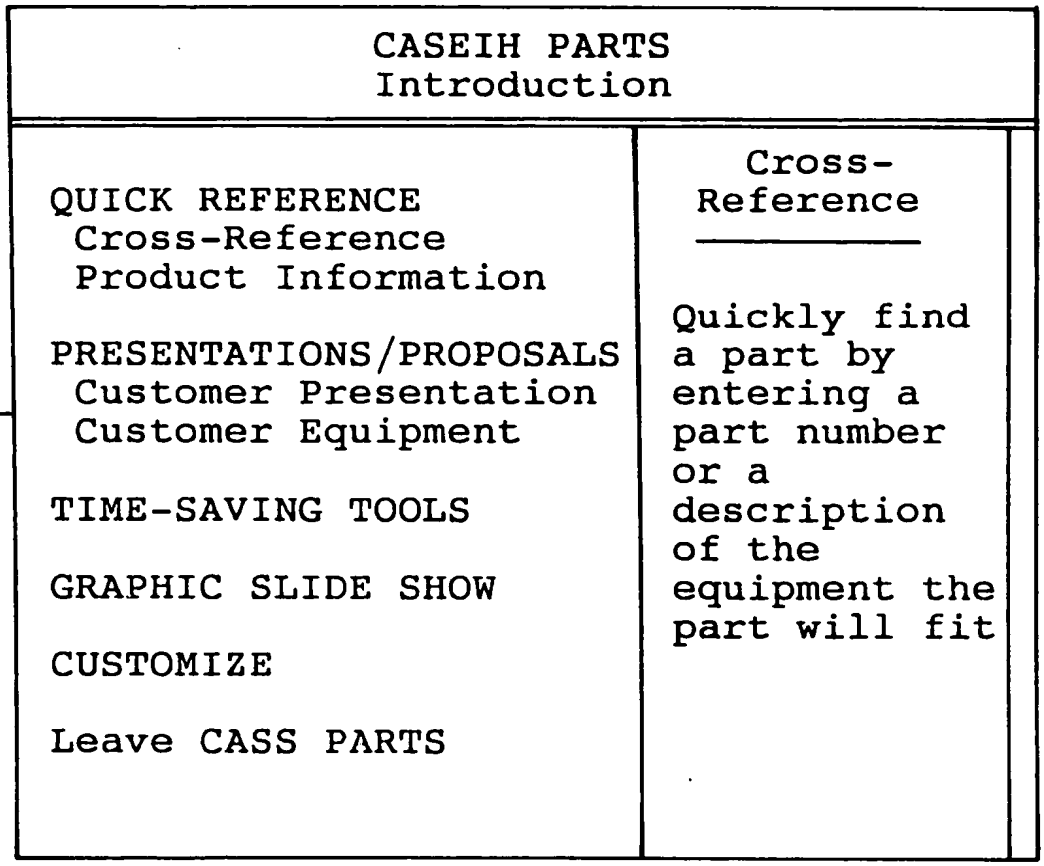
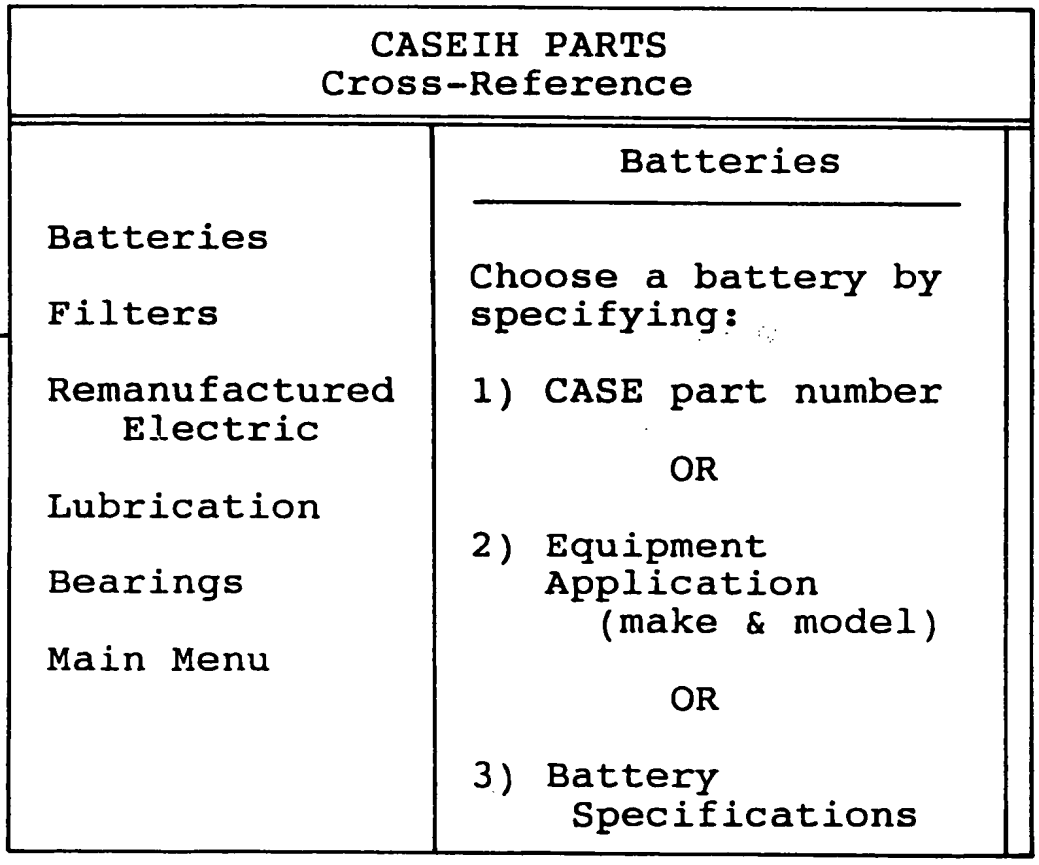


FIG. 25




700

FIG. 26




702

FIG. 27

706

CASEIH PARTS
Limit Batteries

CASEIH PART #

EQUIPMENT APPLICATION

BATTERY SPECIFICATIONS

- BCI Group
- Cold Cranking Amps
- Reserve Cap Minutes
- Voltage
- Dimensions (inches)
- Warranty Months
- Price

CASEIH PART #

Specify the CASEIH Part number for the battery you wish to select.

Press right arrow when lit to go to order screen.

FIG. 28

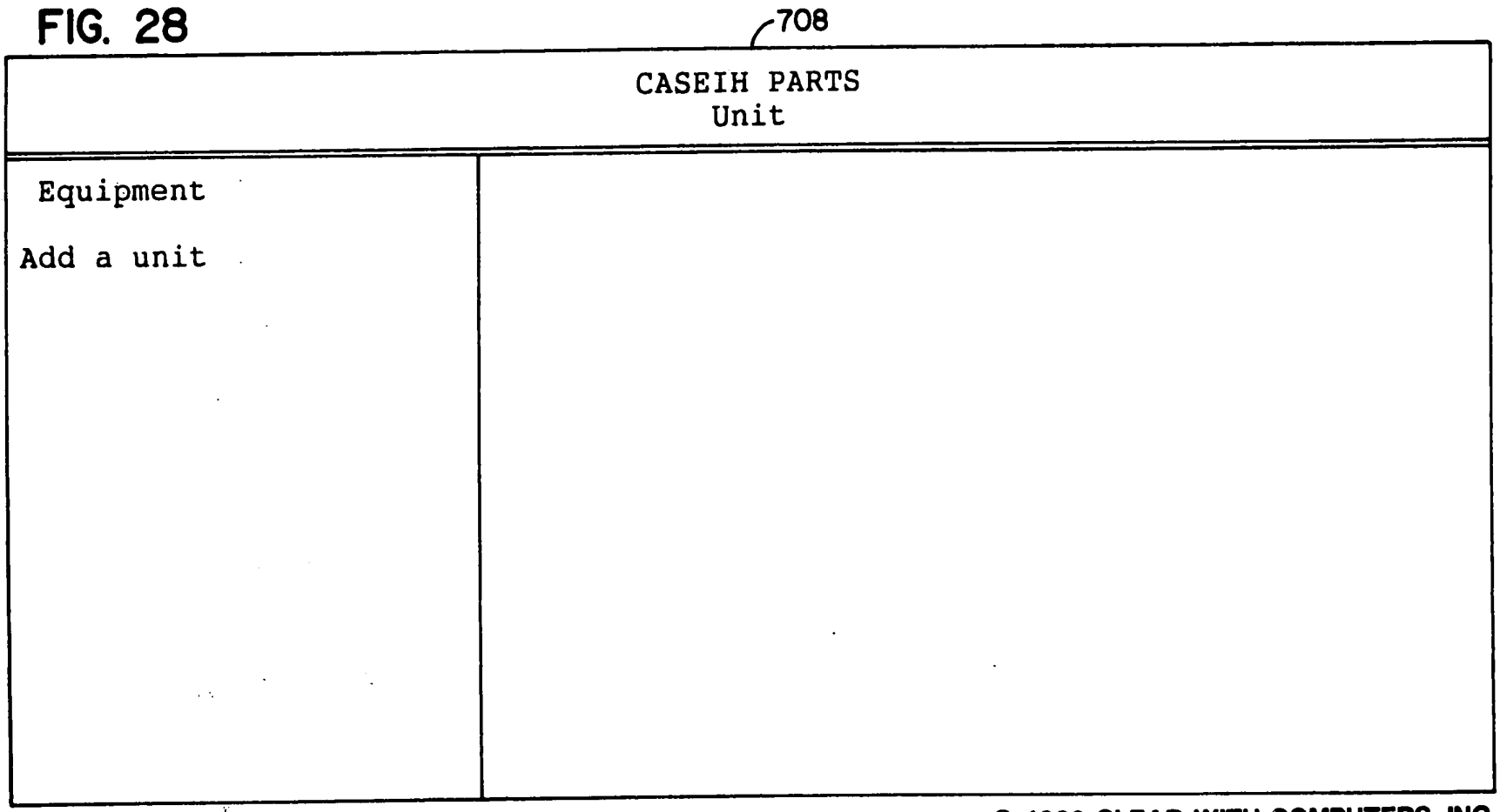


FIG. 29

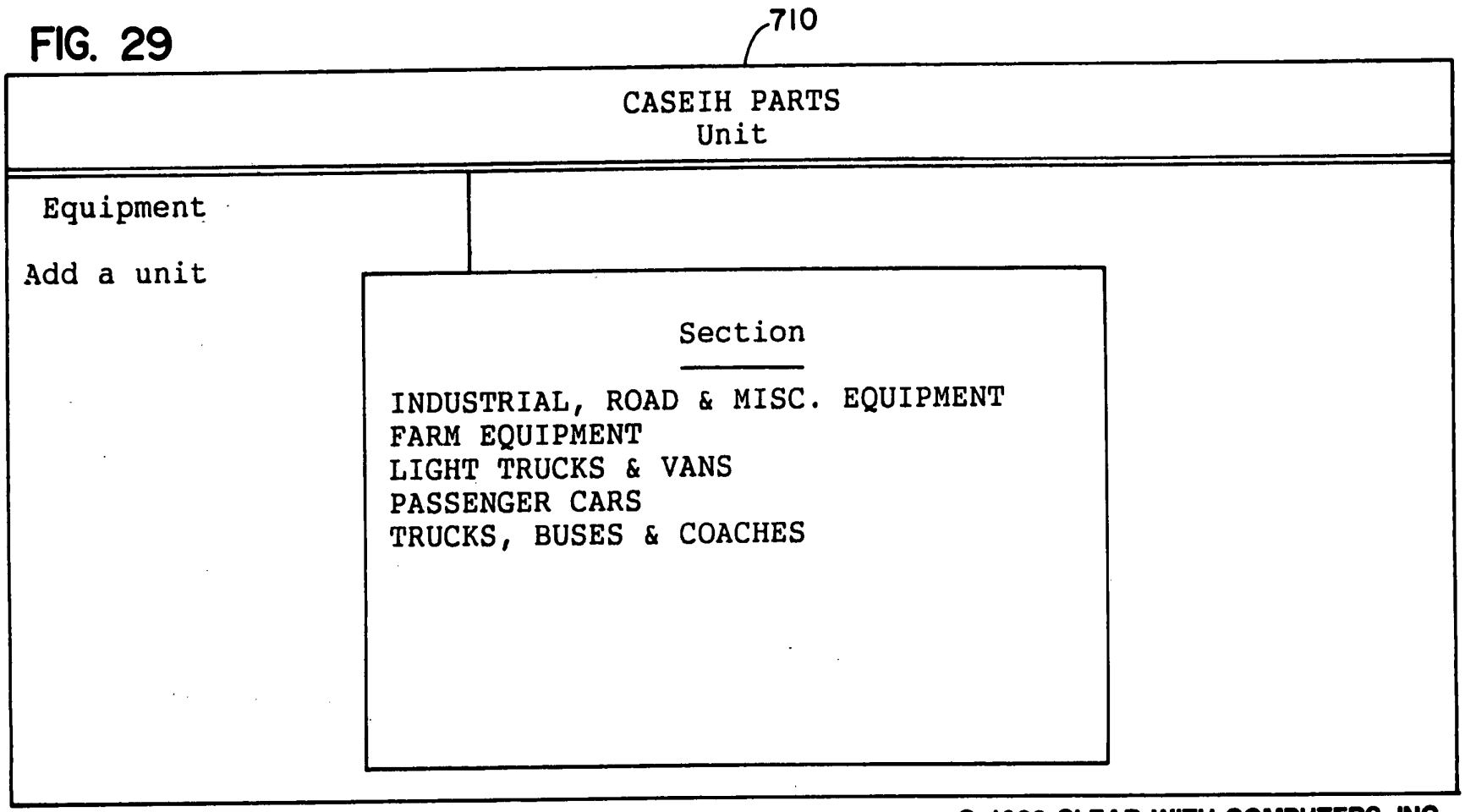


FIG. 30

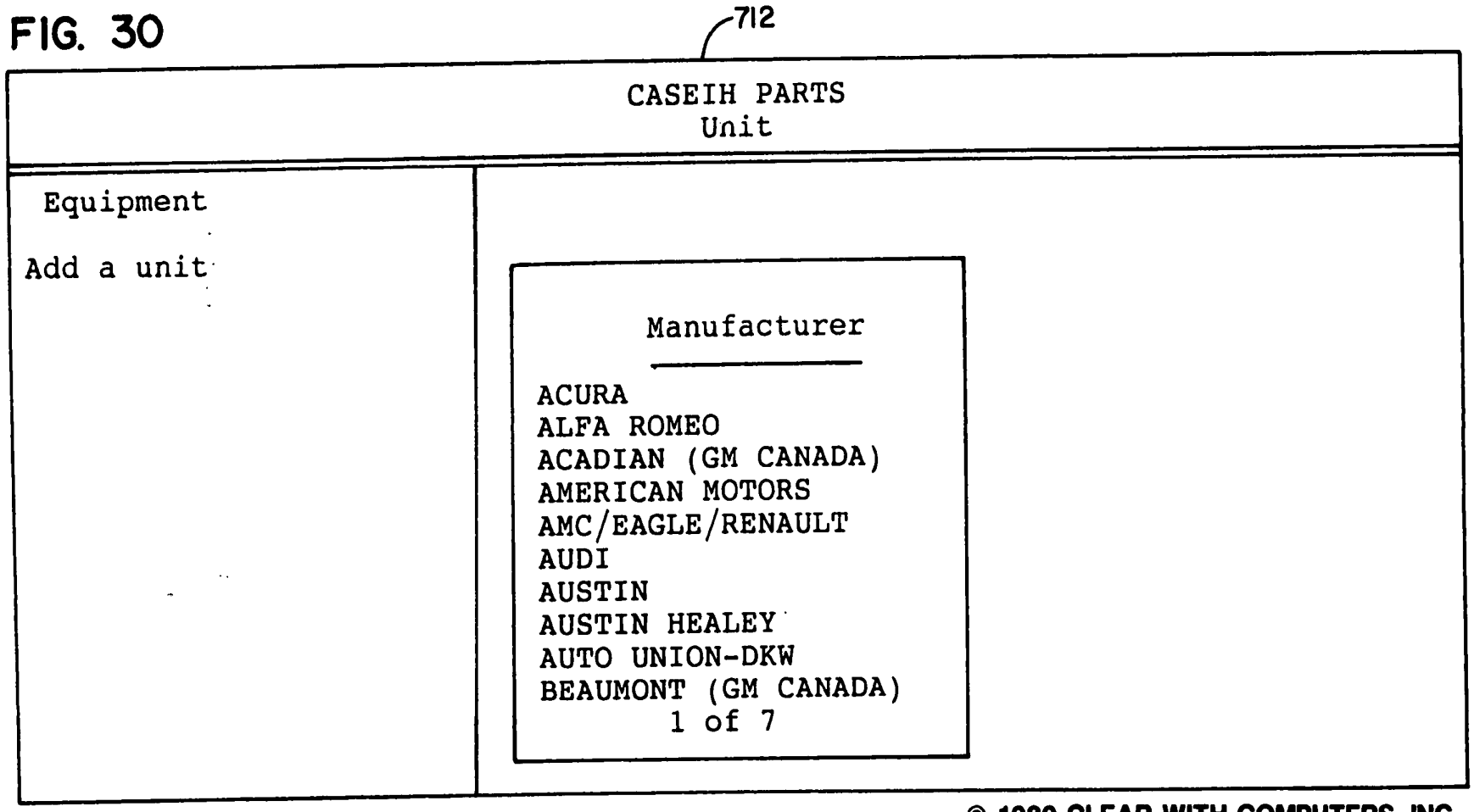


FIG. 31

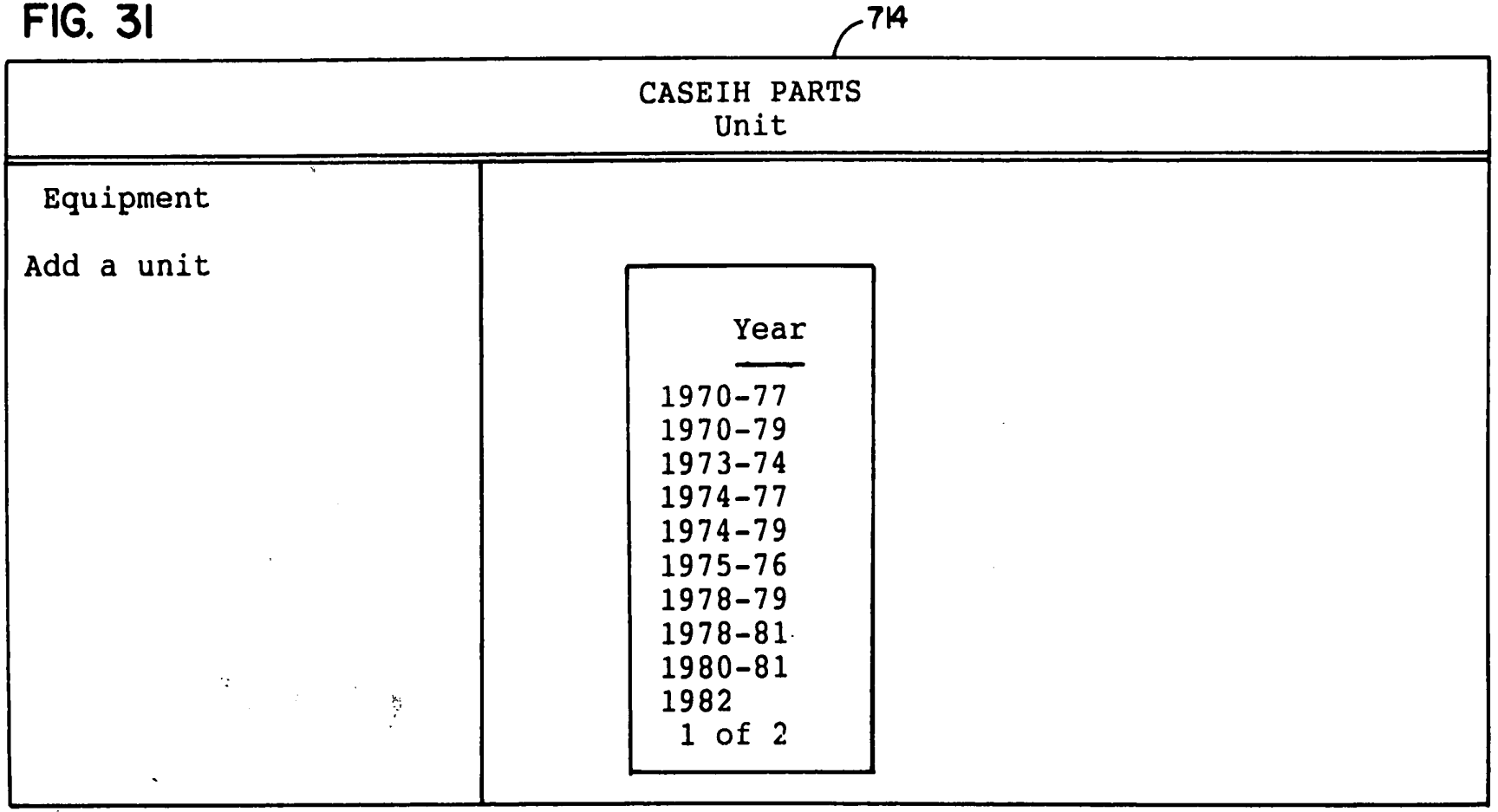


FIG. 32

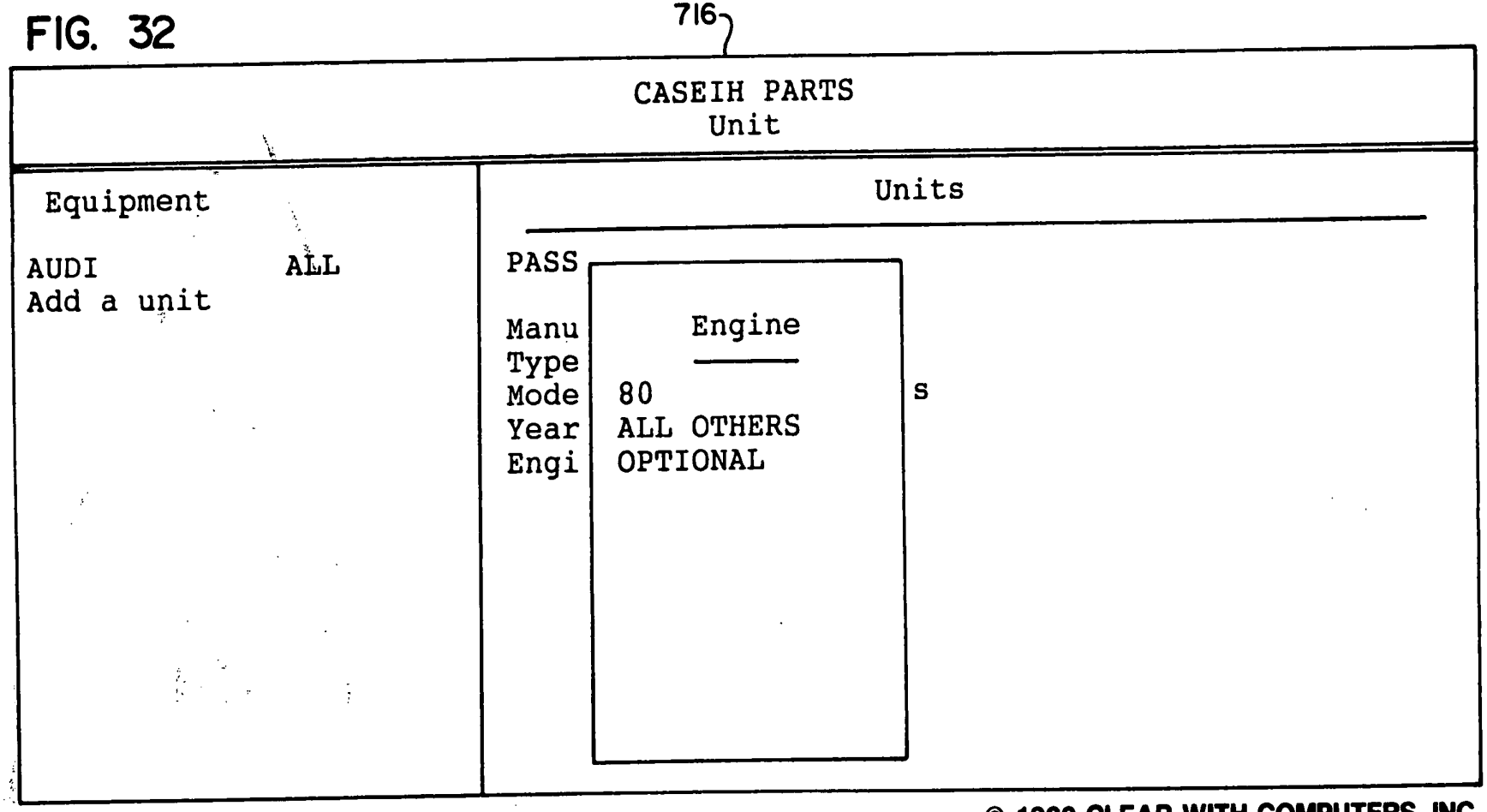


FIG. 33

718

CASEIH PARTS
Unit

| Equipment | | Units |
|---|---|---|
| AUDI | ALL | PASSENGER CARS |
| Add a unit | | |
| | | Manufacturer AUDI |
| | | Type ALL |
| | | Model All Models |
| | | Year 1970-77 |
| | | Engine 80 |

FIG. 34

720

CASEIH PARTS
Limit Batteries

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 42 | 12V | 66 | Plates | 390 | CC | 50 | MO | 1 Battery(s) on unit |
| 42 | 12V | 66 | Plates | 390 | CC | 50 | MO | 1 Battery(s) on unit |
| 42 | 12V | 66 | Plates | 390 | CC | 50 | MO | 1 Battery(s) on unit |

AUDI ALL MODELS 1970-77 ALL OTHERS
Cold Cranking @ 0 deg F (min) 390 AMPS
3.6 Qts Acid 18 lbs dry 27 lbs wet
Dimensions (in) 9.31 x 6.87 x 6.87
90 day full replacement, 50 Mo Warranty

PART NUMBER: B4250 $ 46.99

 721

FIG. 35

722

CASEIH PARTS
Limit Batteries

42 12V 66 Plates 390 CC 50 MO 1 Battery(s) on unit
42 12V 66 Plates 390 CC 50 MO 1 Battery(s) on unit
42 12V 66 Plates 390 CC 50 MO 1 Battery(s) on unit

Report Selection

1. Proposal/Order
2. Comparision
3. Application

AUDI ALL MODELS 1970-77
Cold Cranking @ 0 deg F (min) 390 AMPS
3.6 Qts Acid 18 lbs dry 27 lbs wet
Dimensions (in) 9.31 x 6.87 x 6.87
90 day full replacement, 50 Mo Warranty

PART NUMBER: B4250 $ 46.99

FIG. 36

724

CASEIH PARTS
Limit Batteries

42 12V 66 Plates 390 CC 50 MO 1 Battery(s) on unit
42 12V 66 Plates 390 CC 50 MO 1 Battery(s) on unit
42 12V 66 Plates 390 CC 50 MO 1 Battery(s) on unit

Report Type

1. Detailed
2. Summary

AUDI ALL MODELS 1970-77 ALL OTHERS
Cold Cranking @ 0 deg F (min) 390 AMPS
3.6 Qts Acid 18 lbs dry 27 lbs wet
Dimensions (in) 9.31 x 6.87 x 6.87
90 day full replacement, 50 Mo Warranty

PART NUMBER: B4250 $ 46.99

FIG. 37

# PROPOSAL / ORDER

726

| QTY | PART NUMBER | DESCRIPTION | PRICE EA ($) | PRICE TOTAL ($) |
|---|---|---|---|---|
| | | **BATTERY:** | | |
| 1 | B4250 | 42 12V 66 Plates 390 CC 50 MO | 46.99 | 46.99 |
| | AUDI | ALL MODELS 1970-77 ALL OTHERS | | |
| | | Cold Cranking @ 0 deg F (min) 390 AMPS | | |
| | | 3.6 Qts Acid 18 lbs dry 27 lbs wet | | |
| | | Dimensions (in) 9.31 x 6.87 x 6.87 | | |
| | | 90 day full replacement, 50 Mo Warranty | | |

S U M M A R Y

| Quantity | Product | | Price |
|---|---|---|---|
| 1 | BATTERY | $ | 46.99 |
| | BATTERY Subtotal: | $ | 46.99 |
| | Total: | $ | 46.99 |

X_____ X_____

Accepted by:_____

FIG. 38

# P R O P O S A L / O R D E R

728

| QTY | PART NUMBER | DESCRIPTION | PRICE EA ($) | PRICE TOTAL ($) |
|---|---|---|---|---|
| | | BATTERY: | | |
| 1 | B4250 | 42 12V 66 Plates 390 CC 50 MO | 46.99 | 46.99 |
| | AUDI | ALL MODELS 1970-77 ALL OTHERS | | |

S U M M A R Y

| Quantity | Product | | Price |
|---|---|---|---|
| 1 | BATTERY | $ | 46.99 |
| | BATTERY Subtotal: | $ | 46.99 |
| | Total: | $ | 46.99 |

X_____ X_____

Accepted by:_____

FIG. 39

746

CASEIH PARTS
Limit Batteries

CASEIH PART #

EQUIPMENT APPLICATION

BATTERY SPECIFICATIONS

- BCI Group
- Cold Cranking Amps
- Reserve Cap Minutes
- Voltage
- Dimensions (inches)
- Warranty Months
- Price

BATTERY SPECIFICATIONS

Choose which battery specification categories are to be used to limit battery choice.

Multiple categories can be used.

BCI GROUP

Specify the BCI Group you wish to select a battery from.

Press right arrow when lit to go to order screen.

FIG. 40

747

CASEIH PARTS
Limit Batteries

CASEIH PART #

EQUIPMENT APPLICATION

BATTERY SPECIFICATIONS

- BCI Group
- Cold Cranking Amps
- Reserve Cap Minutes
- Voltage
- Dimensions (inches)
- Warranty Months
- Price

BATTERY SPECIFICATIONS

Choose which battery specification categories are to be used to limit battery choice.

Multiple categories can be used.

Cold Cranking Amps

Specify the Cold Cranking Amps the battery must deliver.

Press right arrow when lit to go to order screen.

FIG. 41

748

CASEIH PARTS
Limit Batteries

CASEIH PART #

EQUIPMENT APPLICATION

BATTERY SPECIFICATIONS

- BCI Group
- Cold Cranking Amps
- Reserve Cap Minutes
- Voltage
- Dimensions (inches)
- Warranty Months
- Price

BATTERY SPECIFICATIONS

Choose which battery specification categories are to be used to limit battery choice.

Multiple categories can be used.

Reserve Capacity Minutes

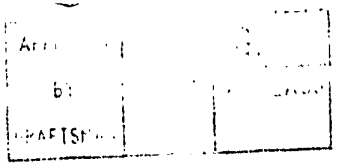
Specify the Reserve Capacity Minutes the battery must deliver.

Press right arrow when lit to go to order screen.



47

FIG. 42



750

CASEIH PARTS
Limit Batteries

CASEIH PART #

EQUIPMENT APPLICATION

BATTERY SPECIFICATIONS

- BCI Group
- Cold Cranking Amps
- Reserve Cap Minutes
- Voltage
- Dimensions (inches)
- Warranty Months
- Price

BATTERY SPECIFICATIONS

Choose which battery specification categories are to be used to limit battery choice.

Multiple categories can be used.

Voltage

Specify the required Voltage the battery must have.

Press right arrow when lit to go to order screen.



48

FIG. 43

752

CASEIH PARTS
Limit Batteries

CASEIH PART #

EQUIPMENT APPLICATION

BATTERY SPECIFICATIONS

- BCI Group
- Cold Cranking Amps
- Reserve Cap Minutes
- Voltage
- Dimensions (inches)
- Warranty Months
- Price

BATTERY SPECIFICATIONS

Choose which battery specification categories are to be used to limit battery choice.
Multiple categories can be used.

Dimensions (inches)

Will locate battery(s) of exact size or if not exact size, available battery(s) whose 3 measurements are within 1/2 inch smaller.

Press right arrow when lit to go to order screen.

FIG. 44

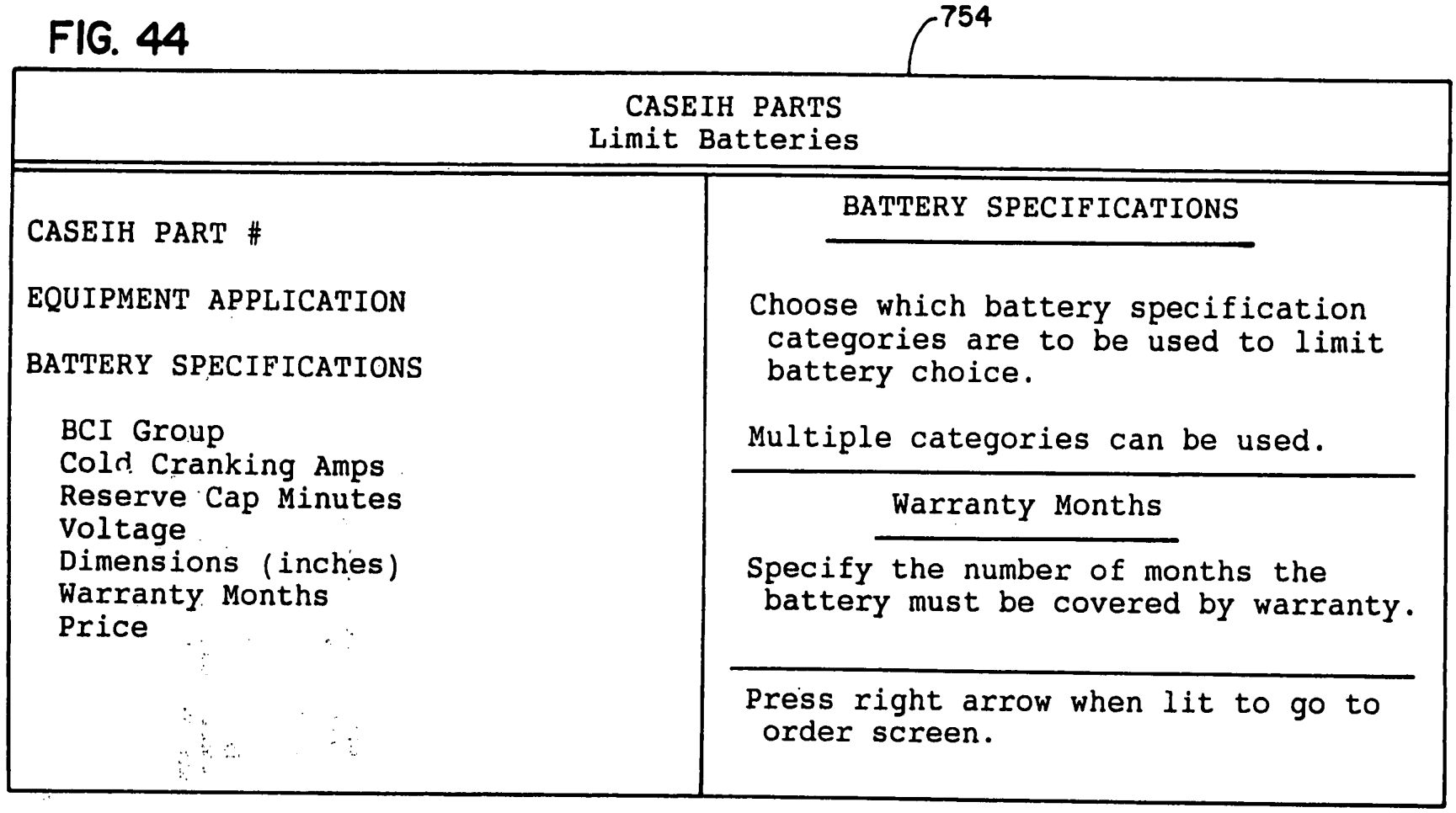


FIG. 45

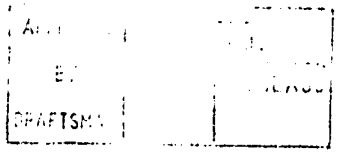


FIG. 46

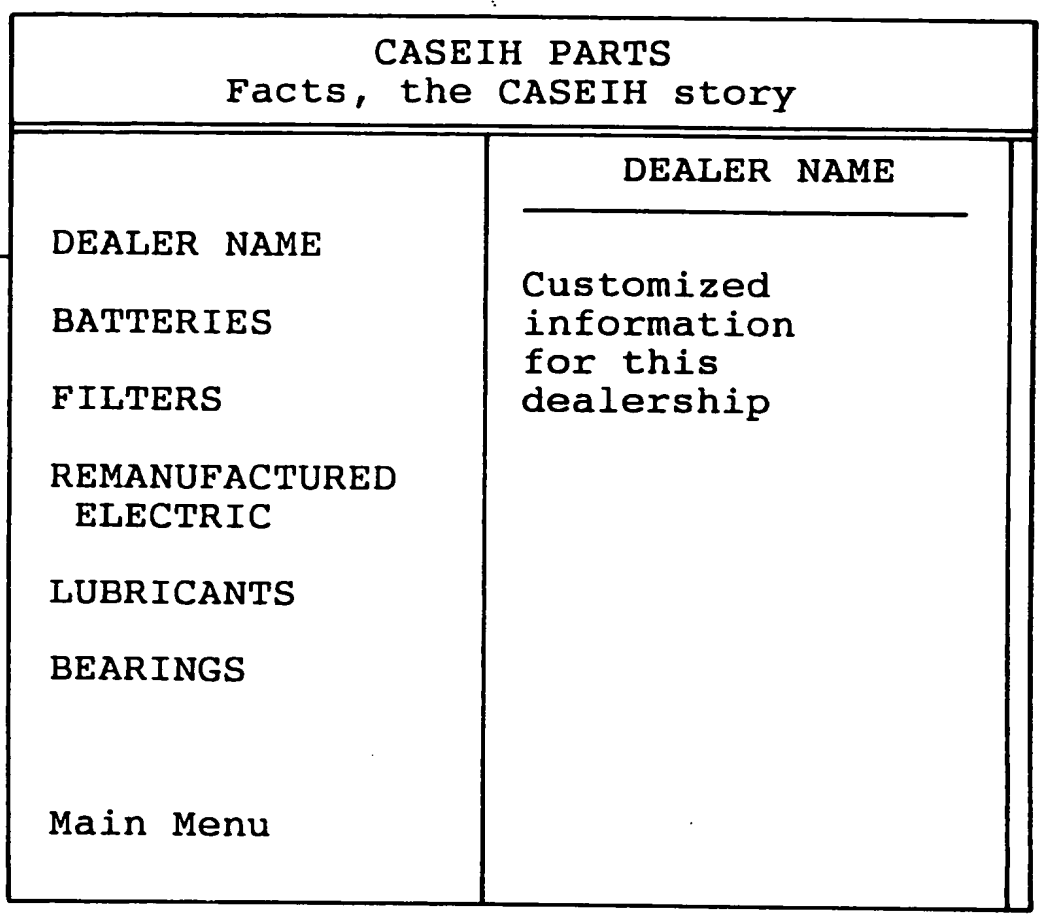



FIG. 47

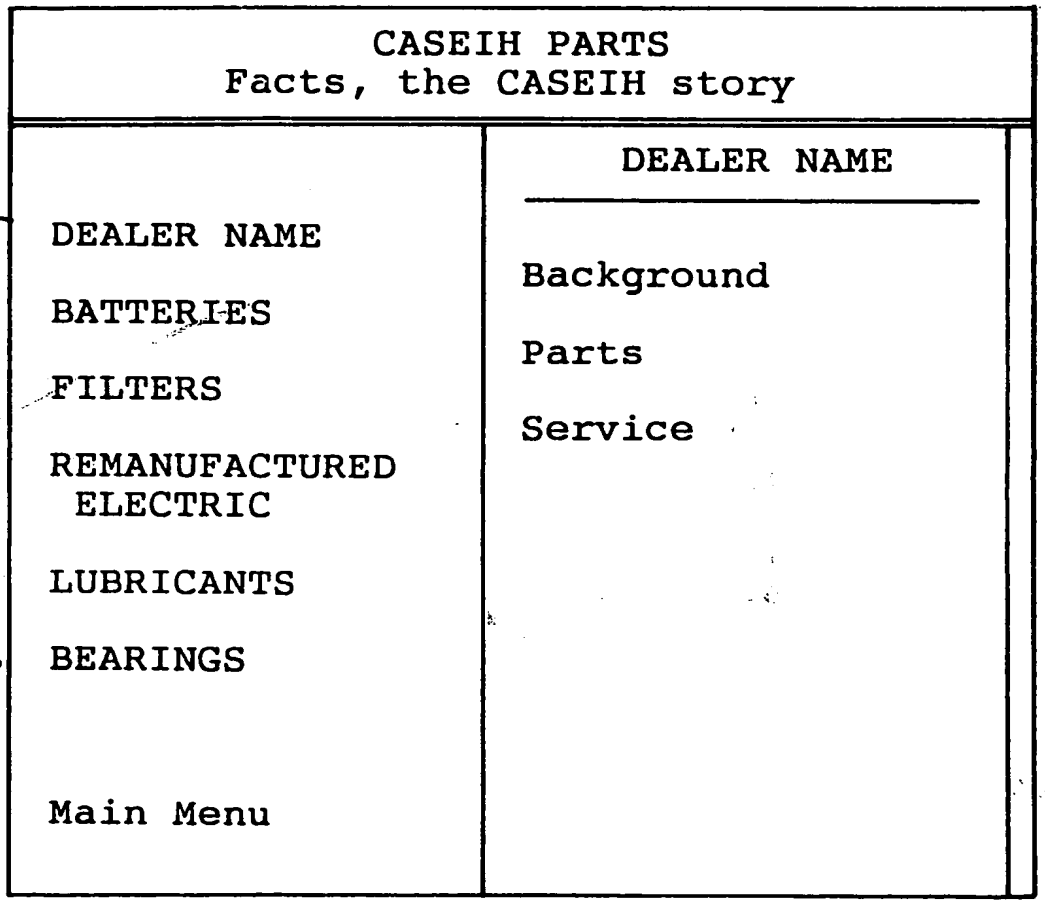


FIG. 48

CASEIH PARTS
Facts, the CASEIH story

734

DEALER NAME

BATTERIES

FILTERS

REMANUFACTURED ELECTRIC

LUBRICANTS

BEARINGS

Main Menu

BATTERIES

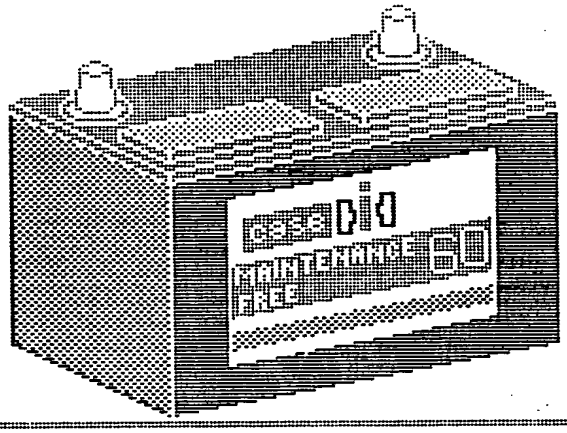
Introduction

How a Battery Works

Construction Features

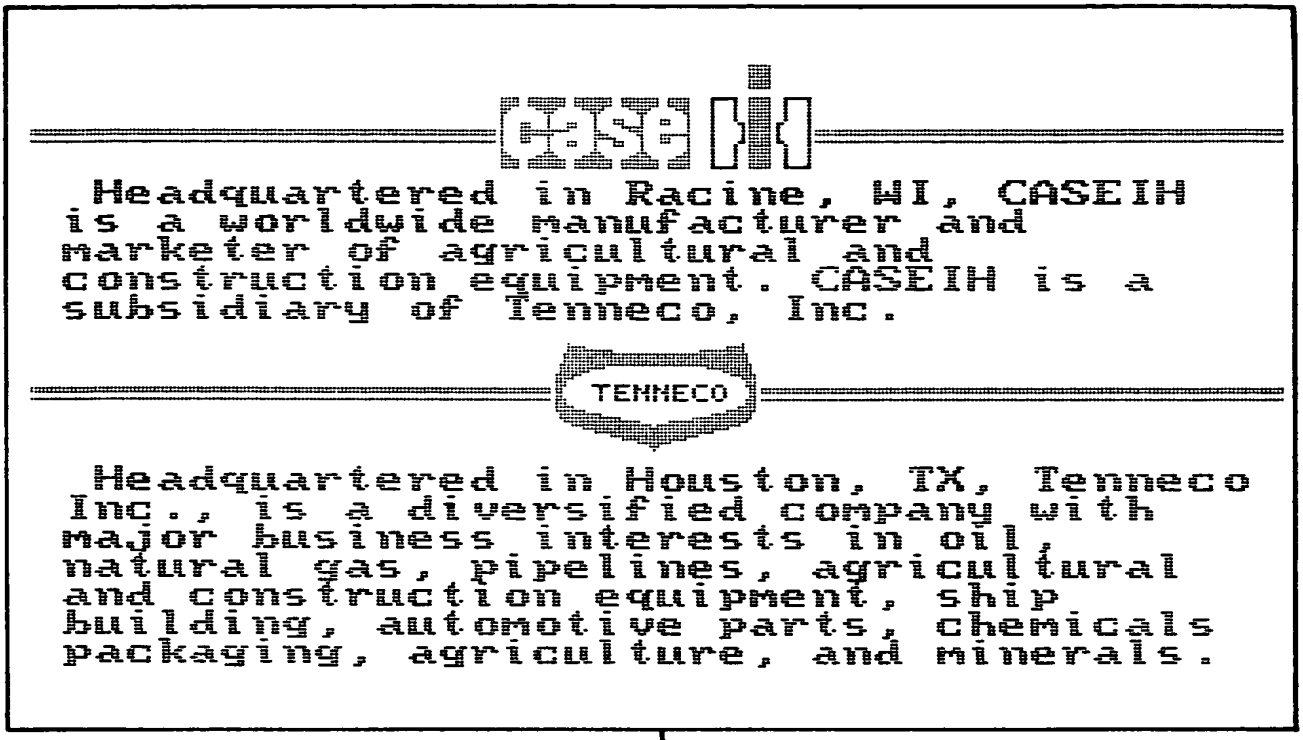
FIG. 49

736



Batteries for every purpose

CASEIH
Sales/Warranty Outlets
Warranty




738

FIG. 50

FIG. 51

740

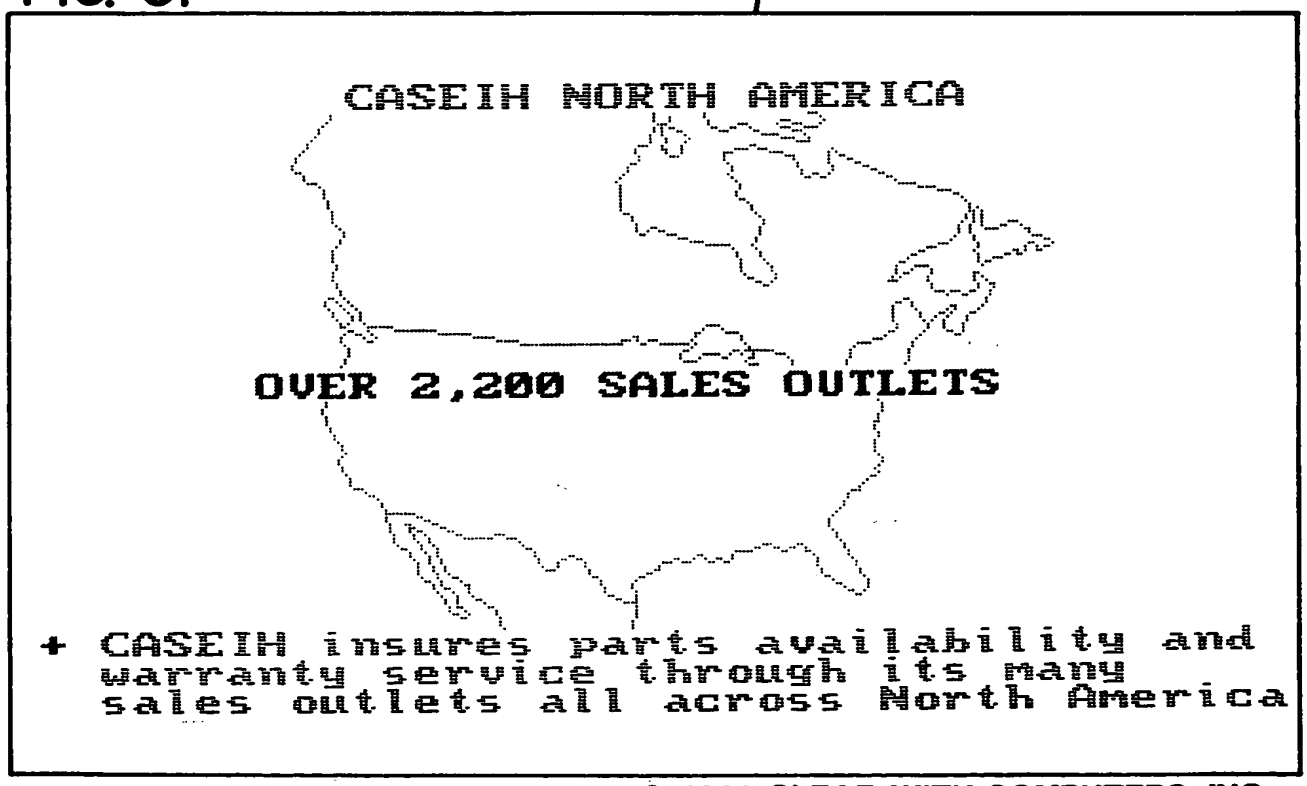
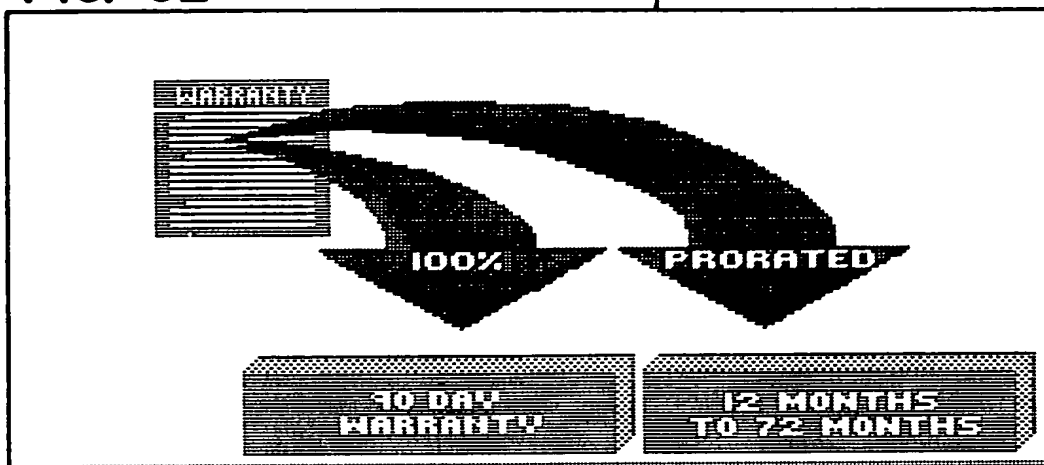


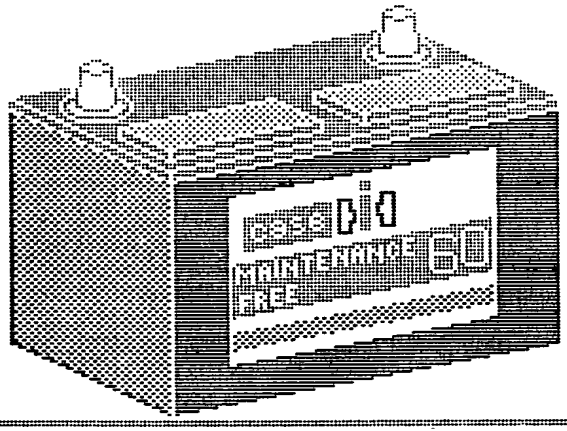
FIG. 52




* WARRANTY

+ CASEIH stands behind their batteries with the best warranty in the industry, regardless of vehicle application

FIG. 53



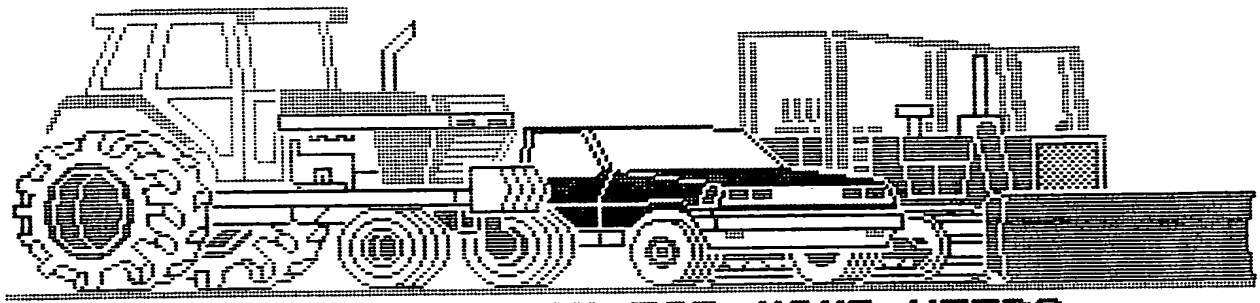
Batteries for every purpose

The Right Battery
Functions of a Battery
Charge/Discharge Cycle
Fully Charged
Discharging
Totally Discharged
Charging

Screen 1 of 2

FIG. 54

760

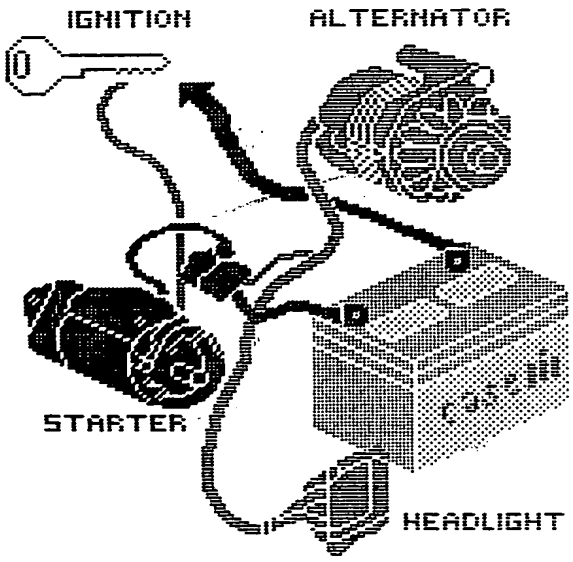


* THE RIGHT BATTERY FOR YOUR NEEDS

+ A wide selection of quality batteries, made in North America by skilled craftsmen, provide superior performance features for almost any application

FIG. 55

762




## MAIN FUNCTIONS OF THE BATTERY

1) Supply power to starter and ignition system

2) Supply extra power when vehicle's electrical load requirements exceed supply from charging system

3) Protect electrical system from temporarily high voltages

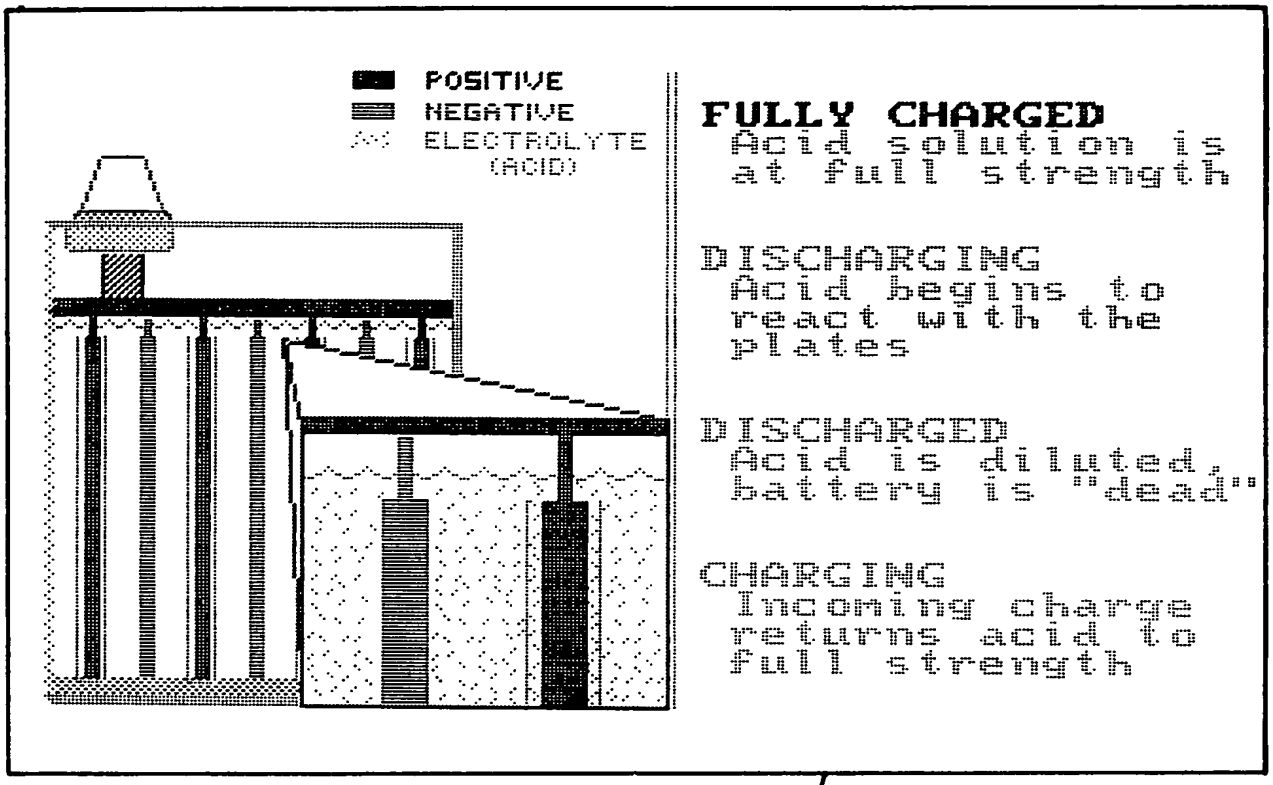



FIG. 56

FIG. 57

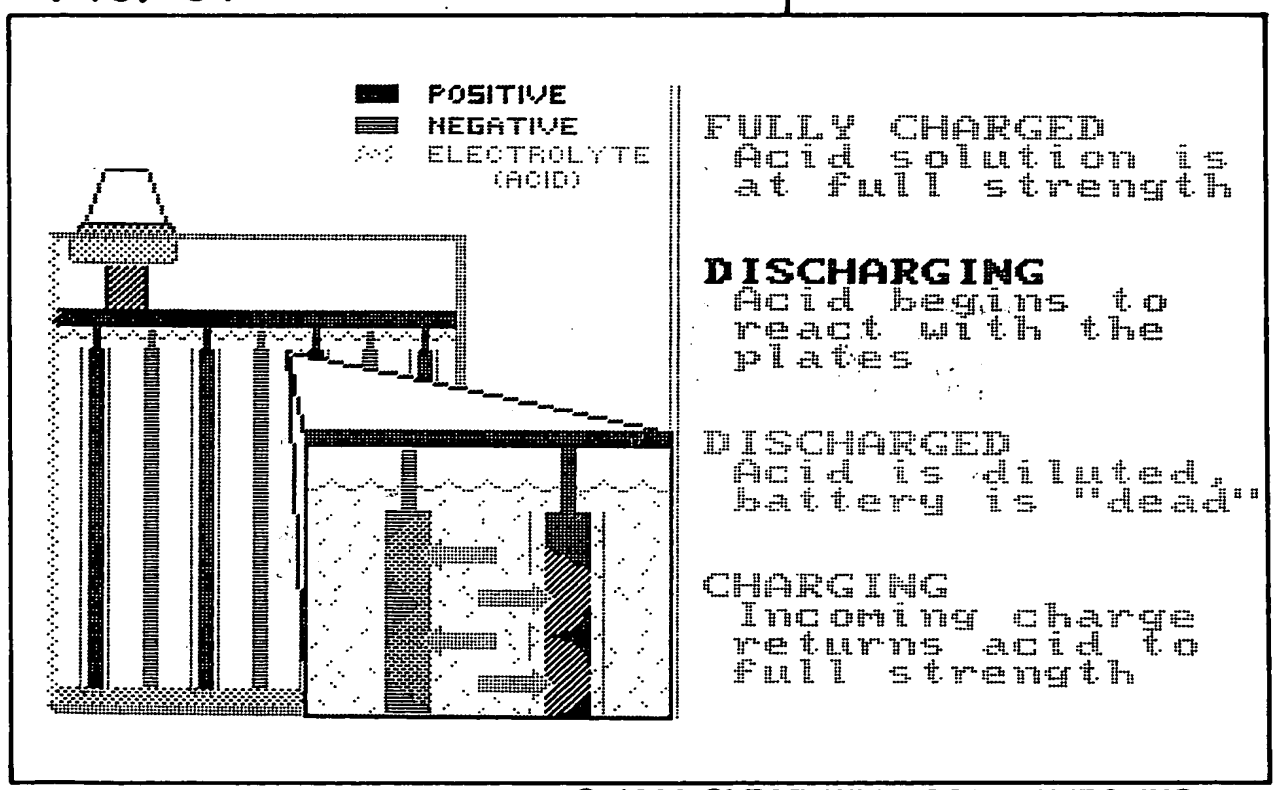


FIG. 58

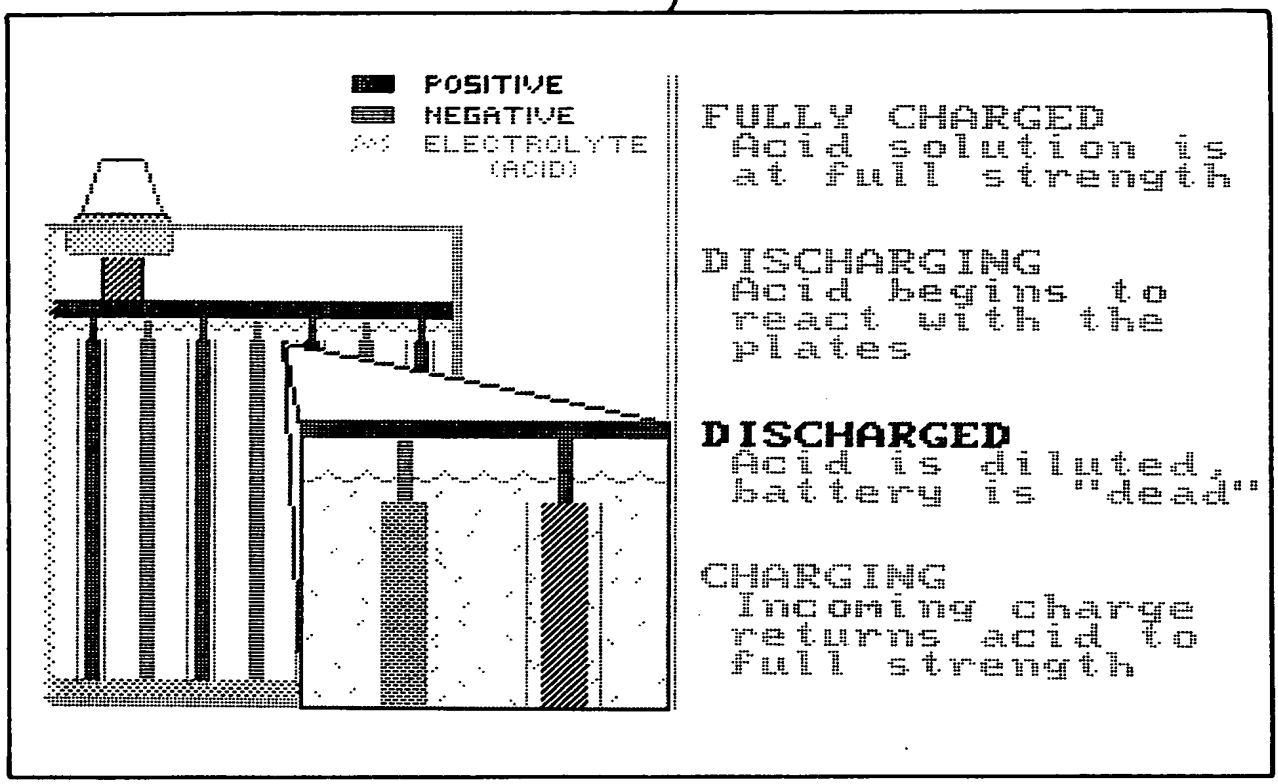



FIG. 59

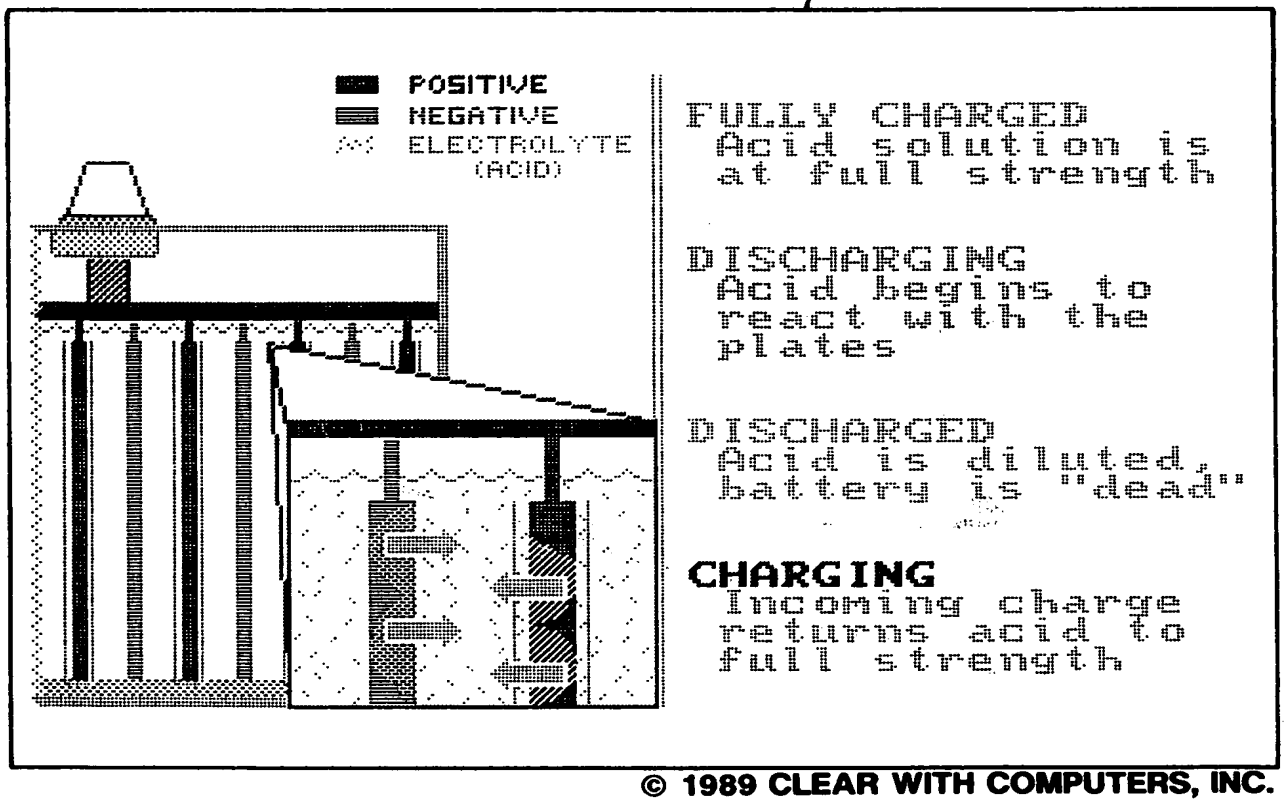
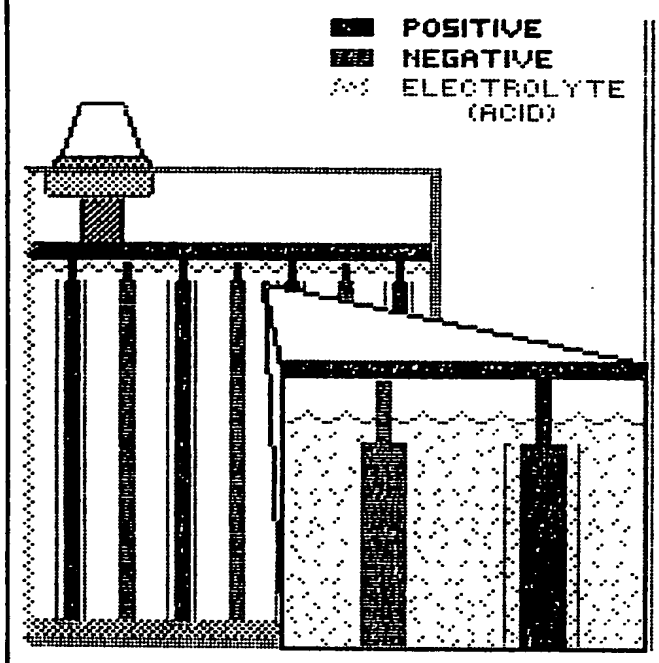


FIG. 60

780

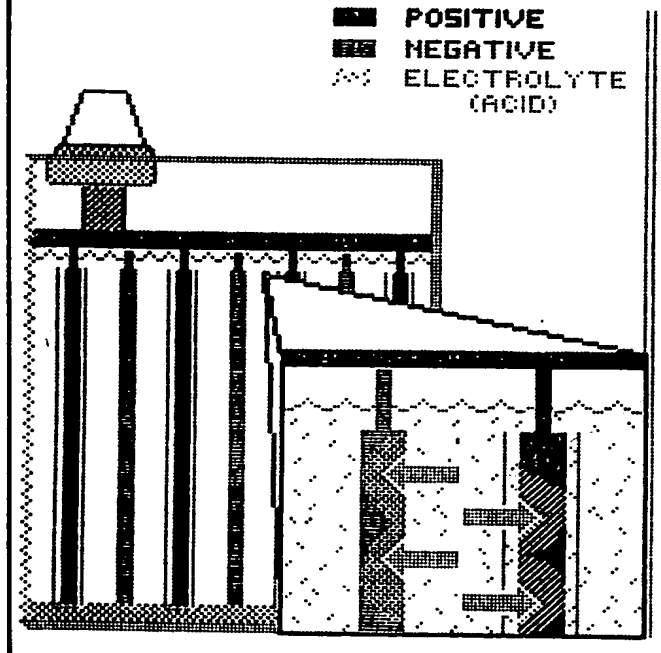



**FULLY CHARGED**

Electrolyte ( acid ) in battery is at full strength and plates are ready to deliver full voltage

FIG. 61

778




**DISCHARGING**

Electrolyte ( acid ) is diluted by water produced and battery's ability to deliver a useful voltage is lowered

FIG. 62

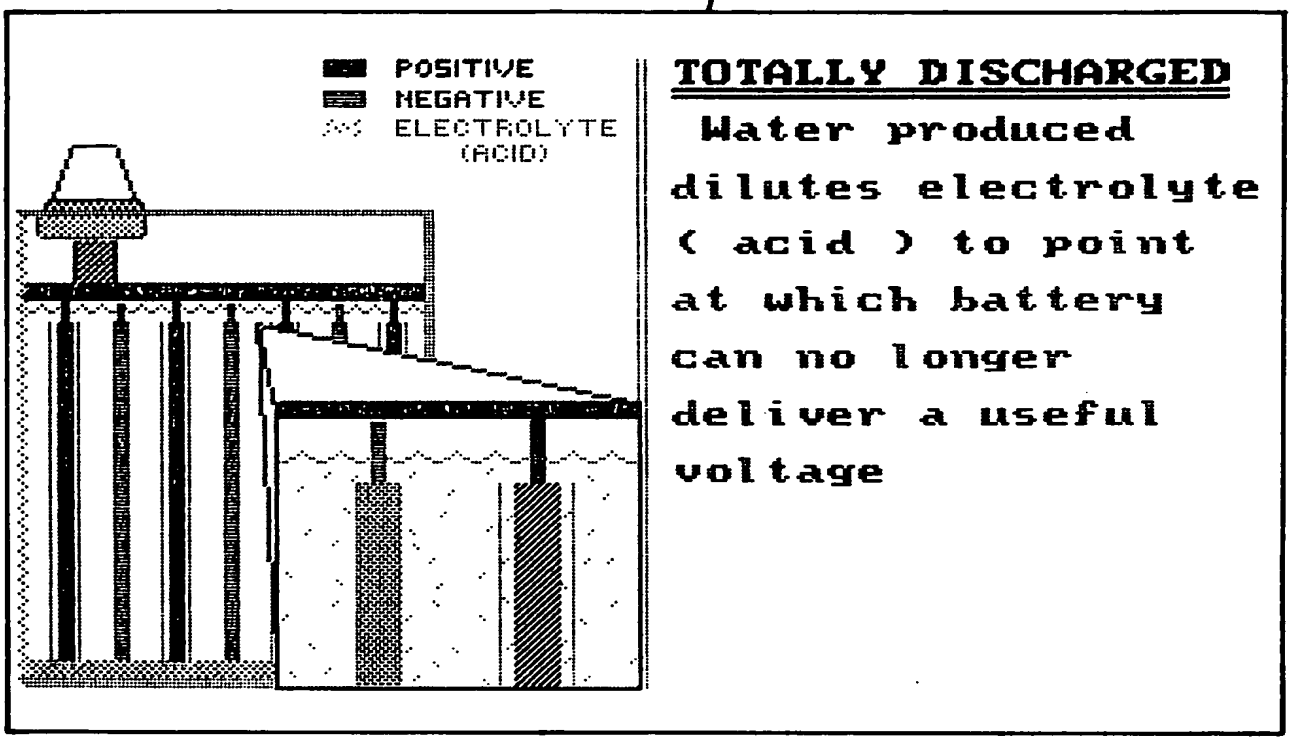



FIG. 63

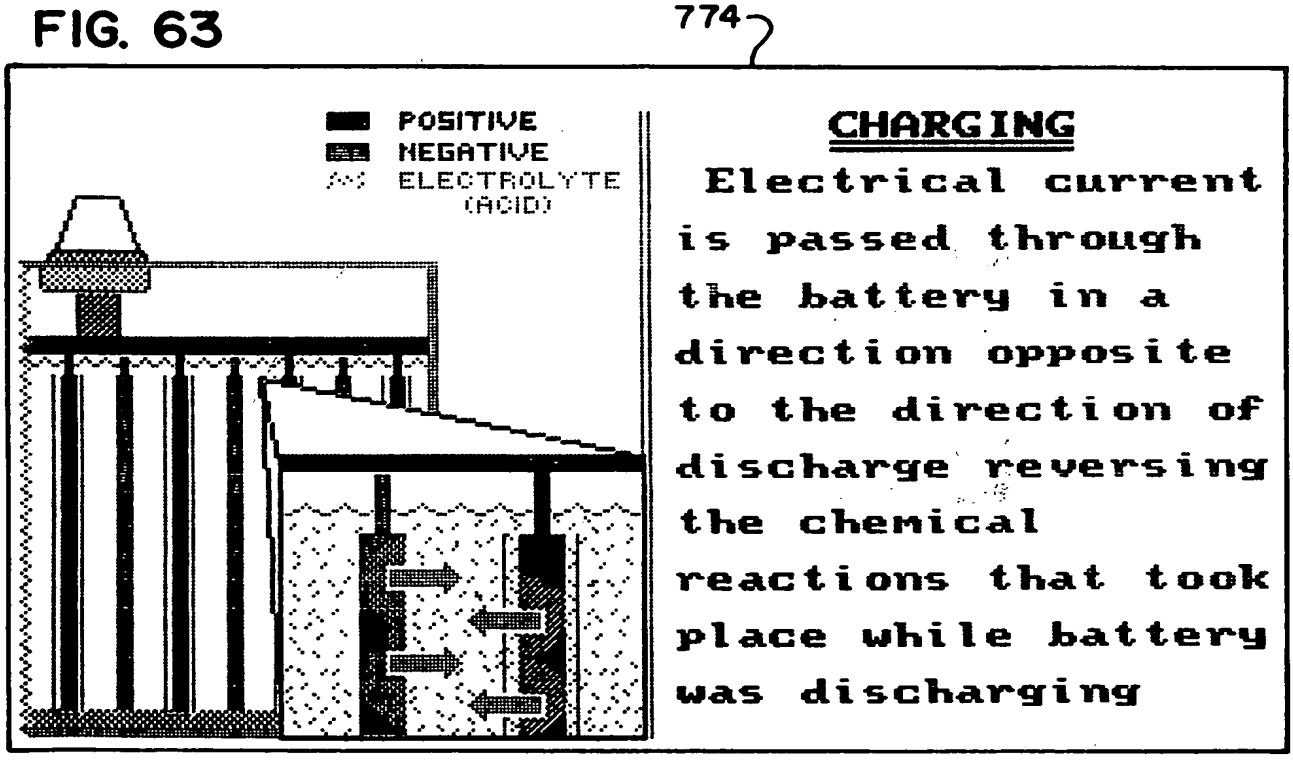
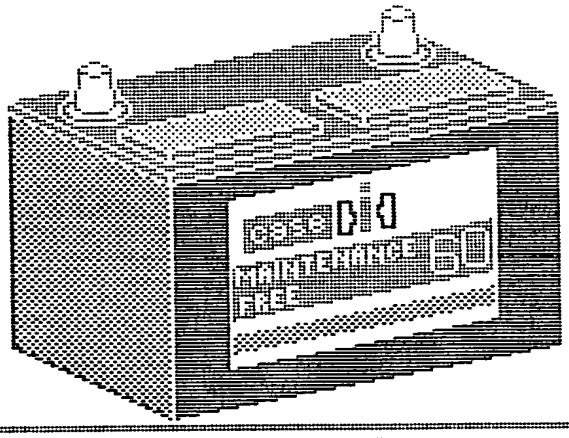


FIG. 64

759



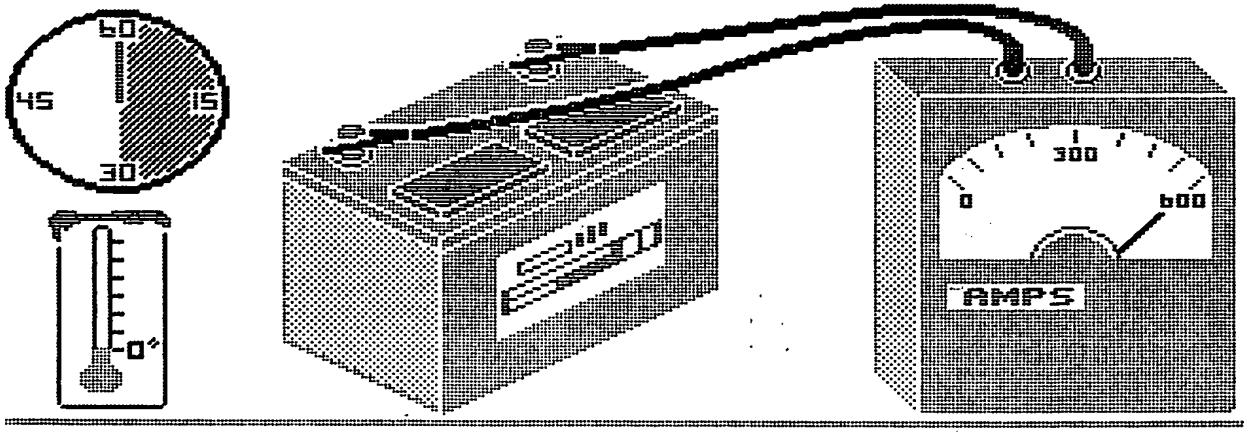
Batteries
for every
purpose

Cold Cranking Power
Engineering vs. Marketing Ratings
Reserve Capacity

Screen 2 of 2

FIG. 65

782




* COLD CRANKING CAPACITY
+ Amount of current battery can deliver for 30 seconds at 0 degrees without dropping below a specific voltage
+ Ability of battery to provide adequate power to start a cold engine based on manufacturer's standards

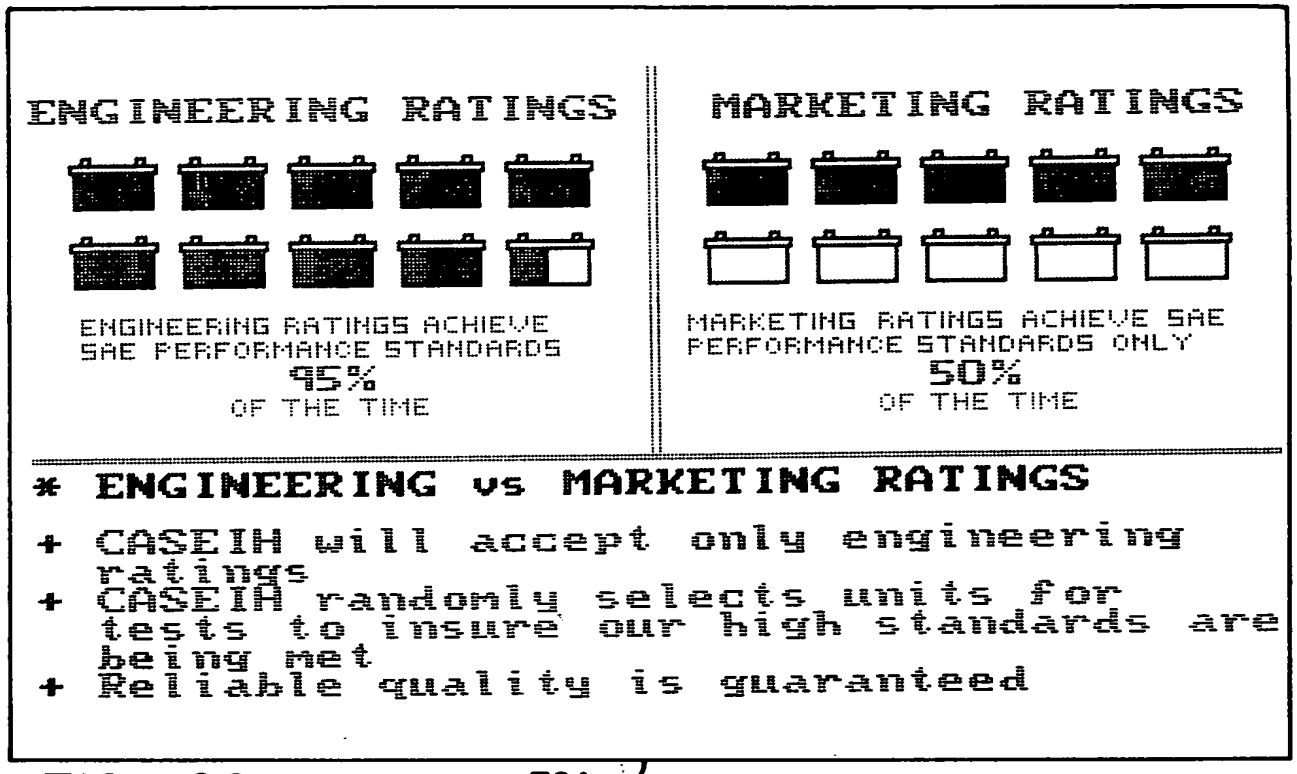
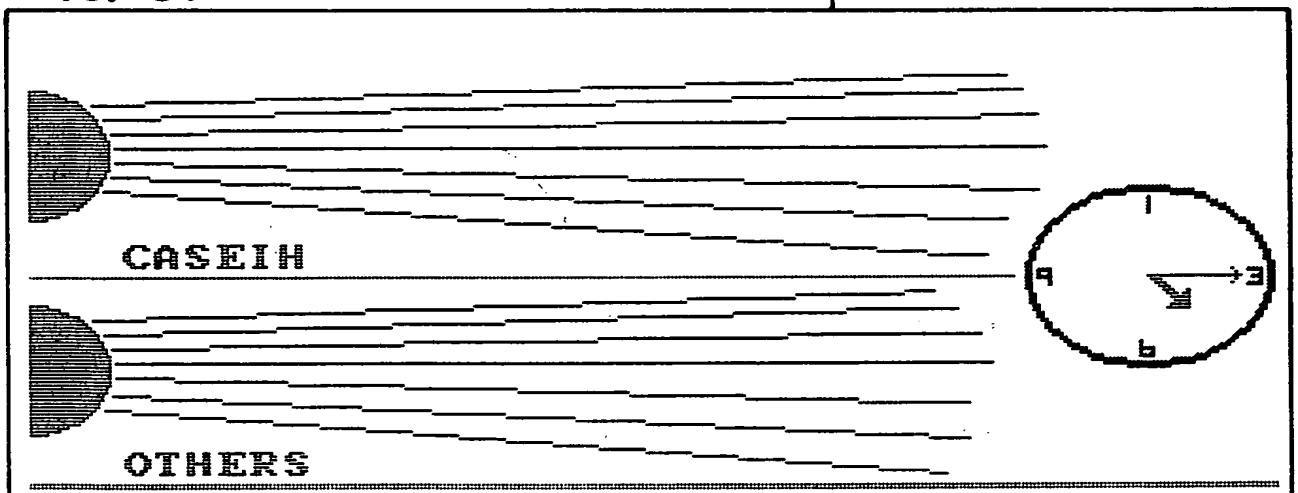


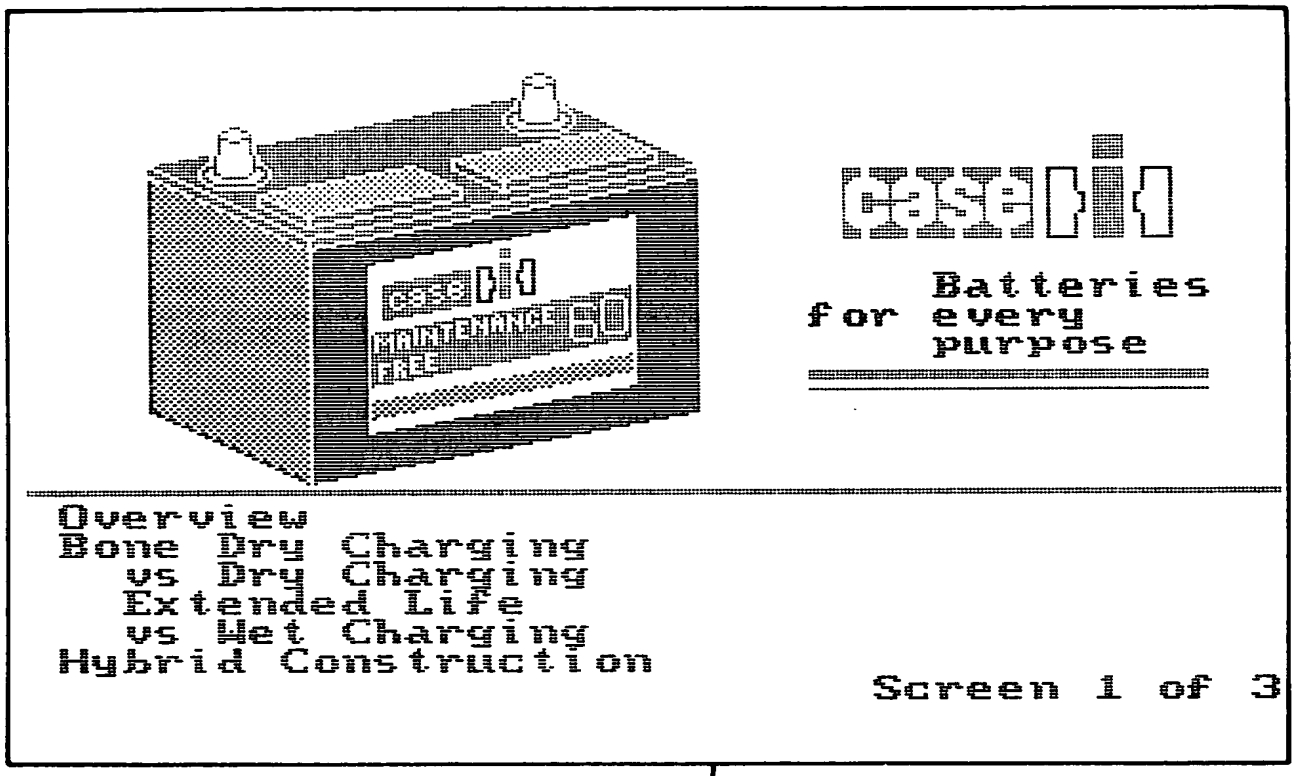

FIG. 66

784

FIG. 67

786



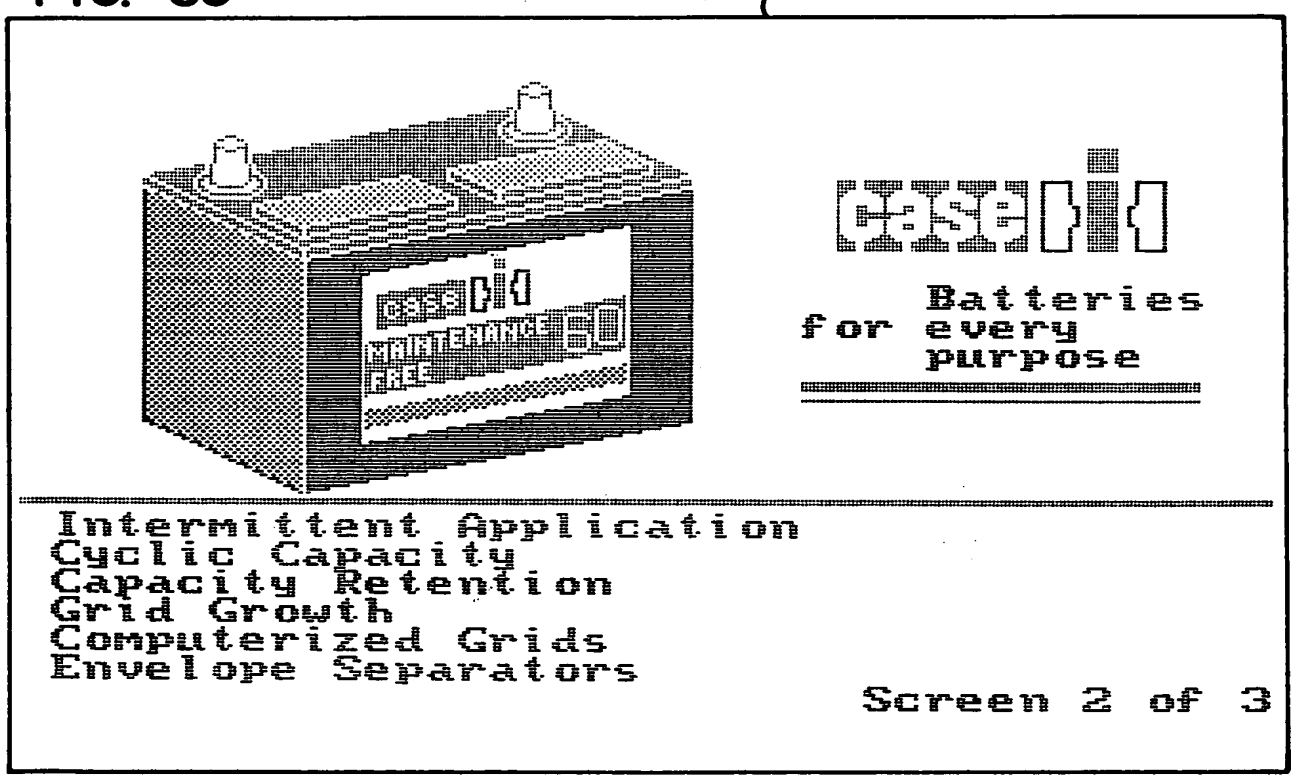



788

FIG. 68

FIG. 69

790



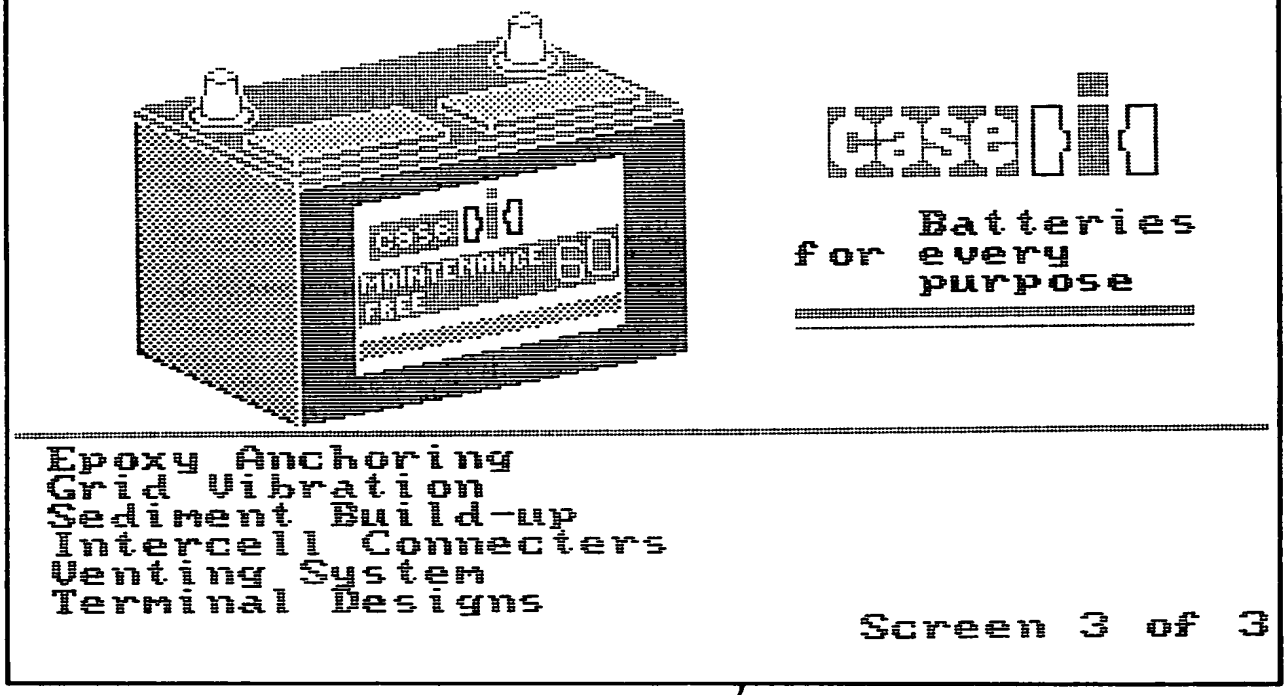
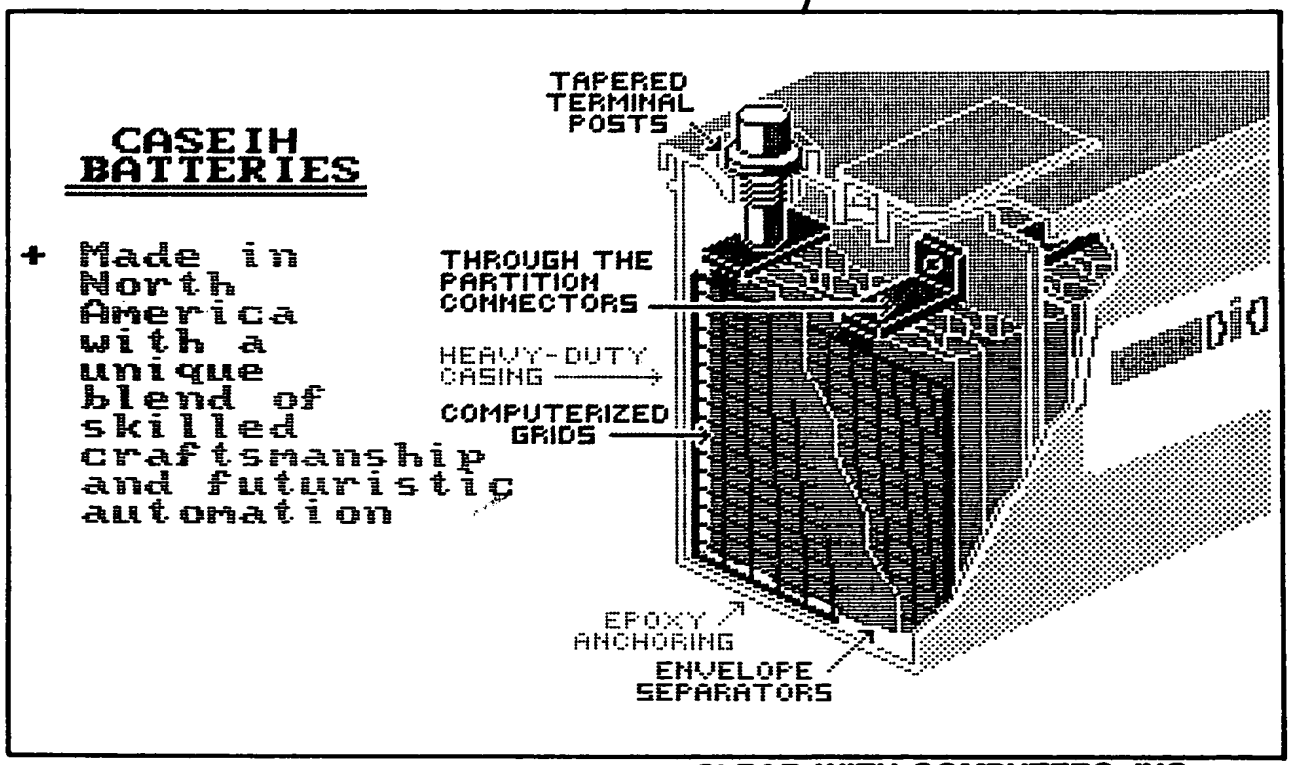


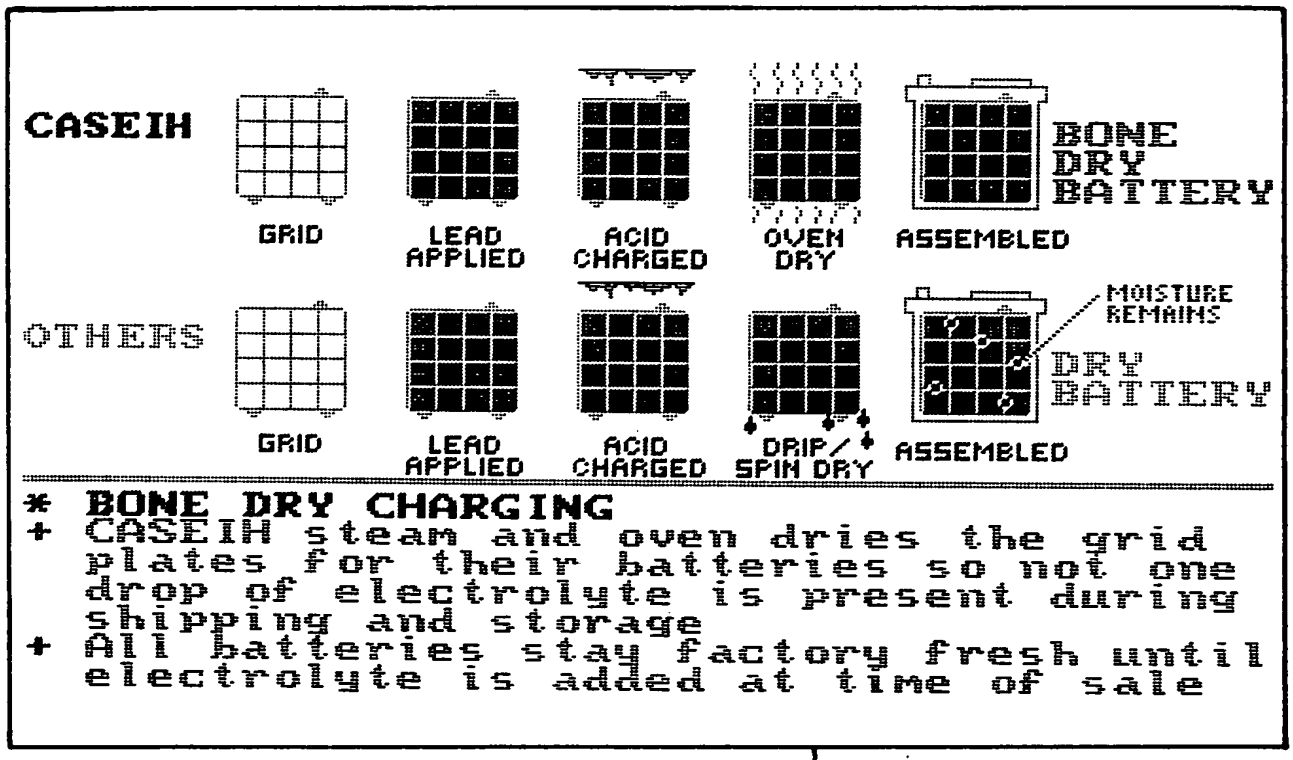

FIG. 70

816

FIG. 71

792



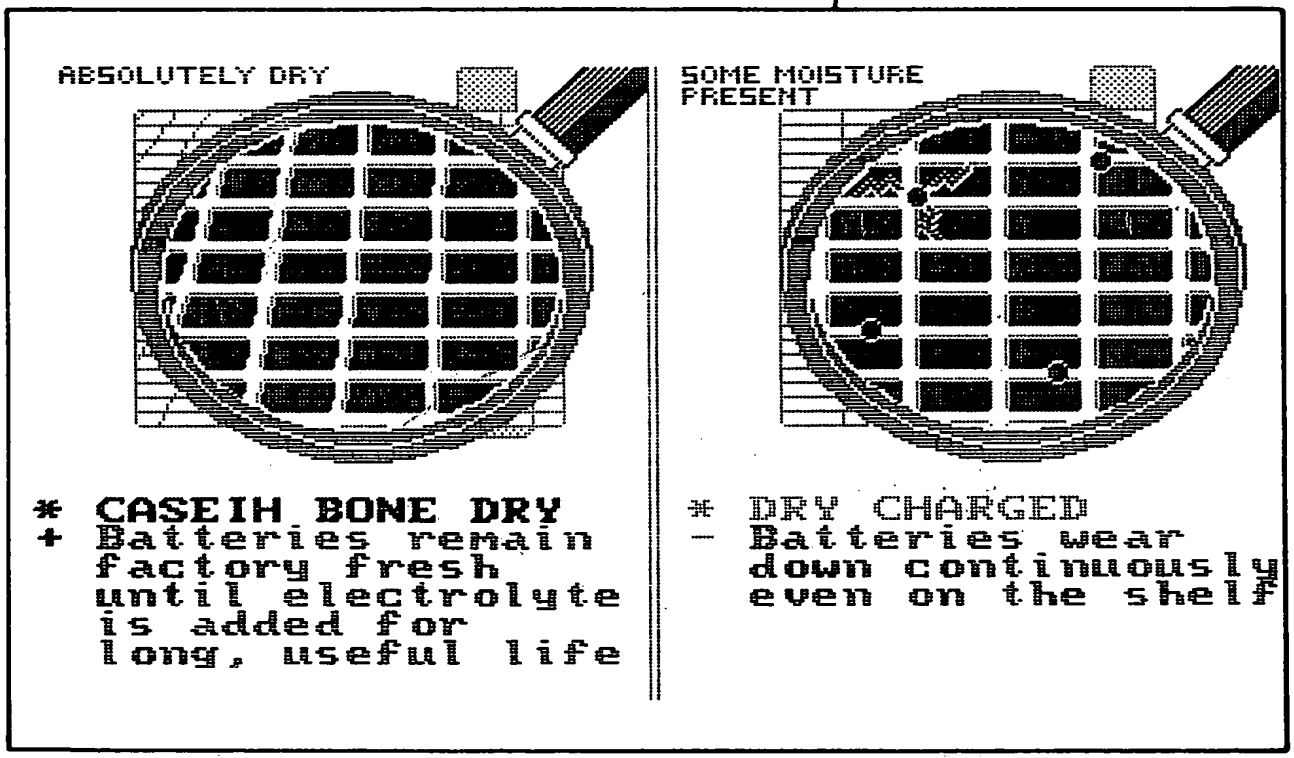


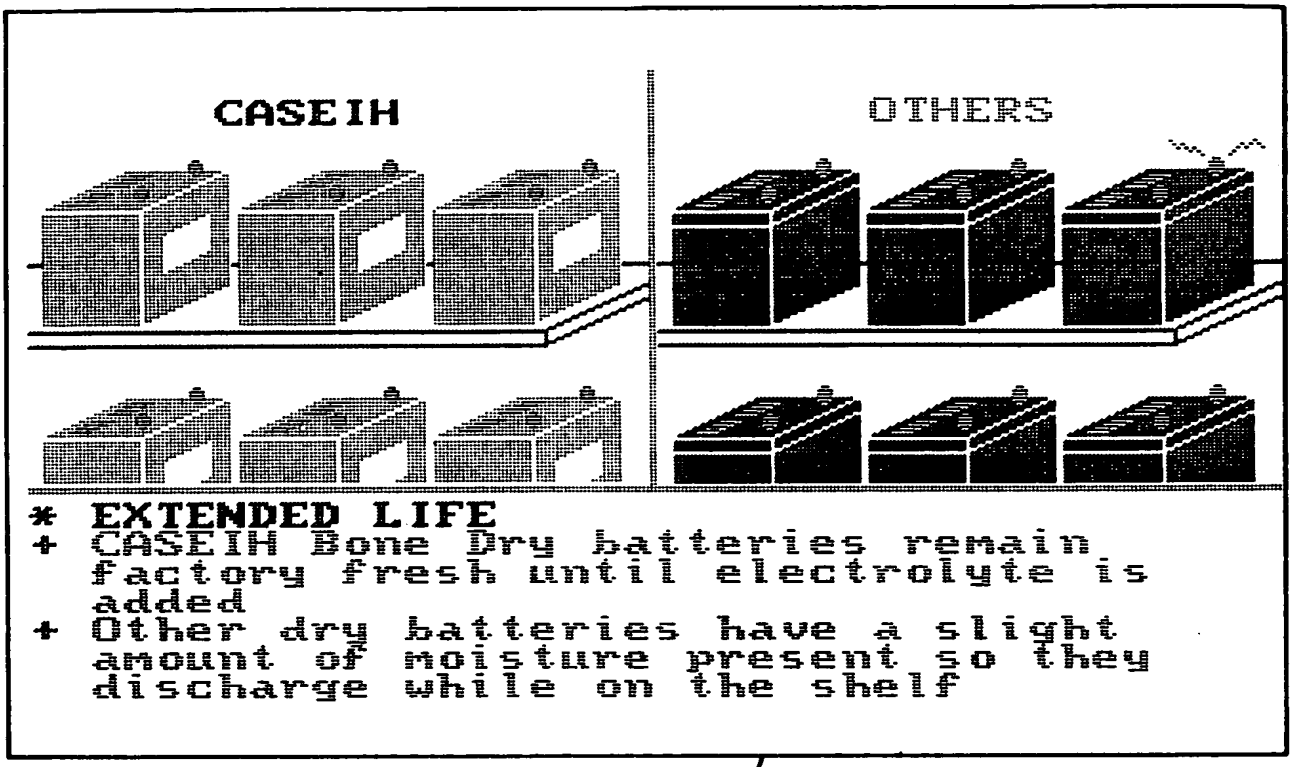

794

FIG. 72

FIG. 73

796






798

FIG. 74

FIG. 75

800

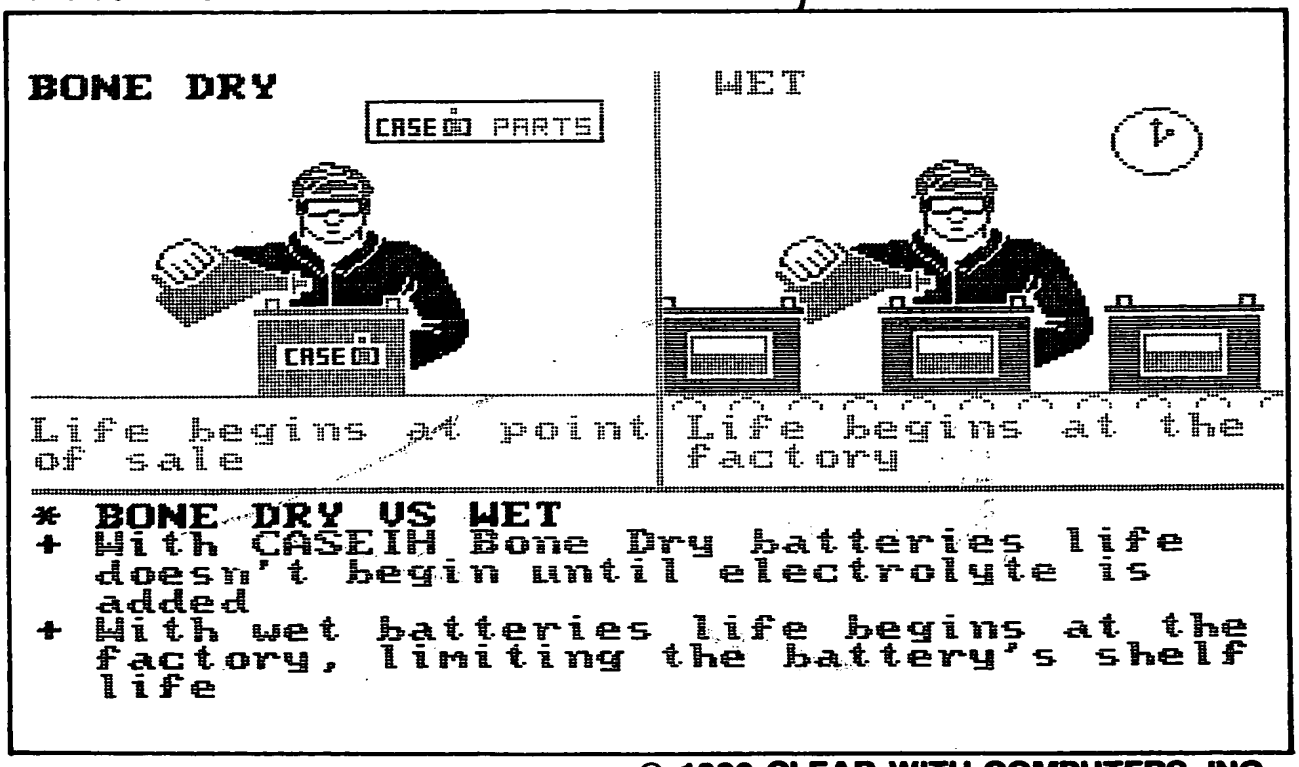


FIG. 76

802

## HYBRID BATTERY

+ The term "hybrid battery" means the positive grid alloy is a low antimony-lead alloy and the negative grid alloy is a calcium-lead alloy

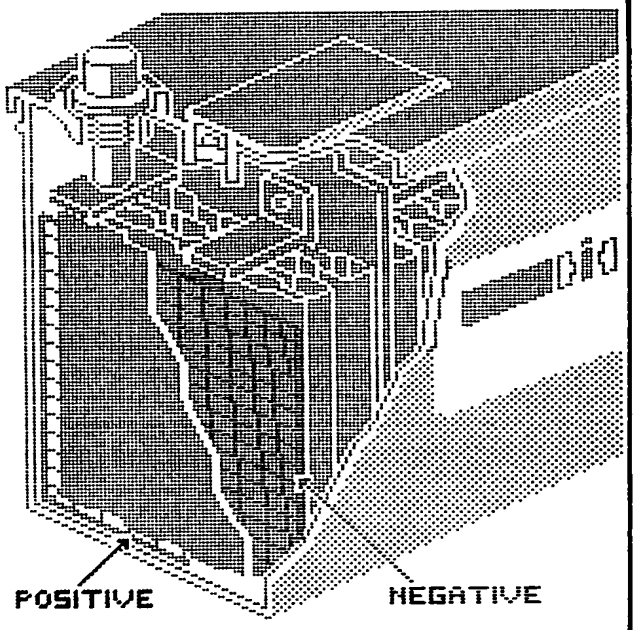
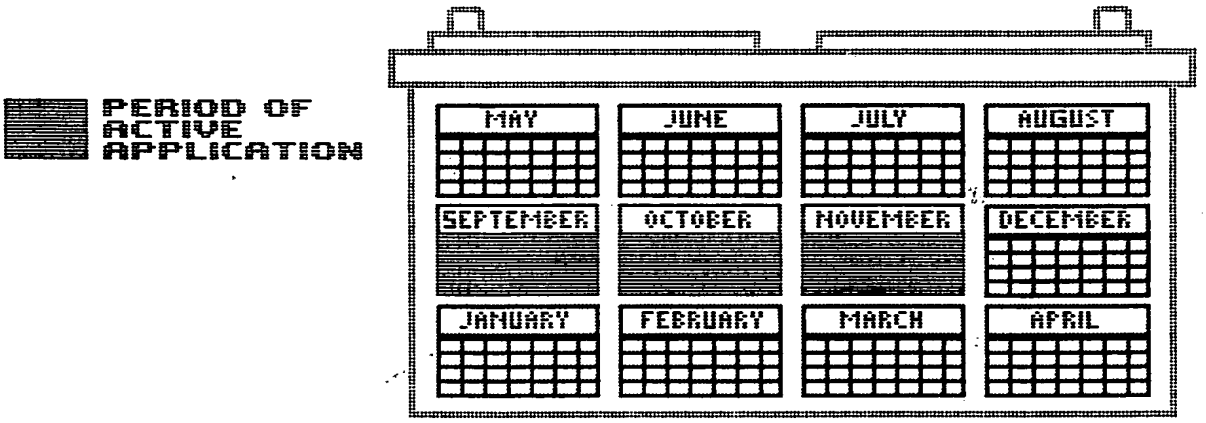



FIG. 77

814




* INTERMITTENT APPLICATION

+ CASEIH hybrid battery is more suitable in starting a vehicle after standing for long periods of inactivity
+ Once the vehicle is started, the hybrid battery will accept charge quickly

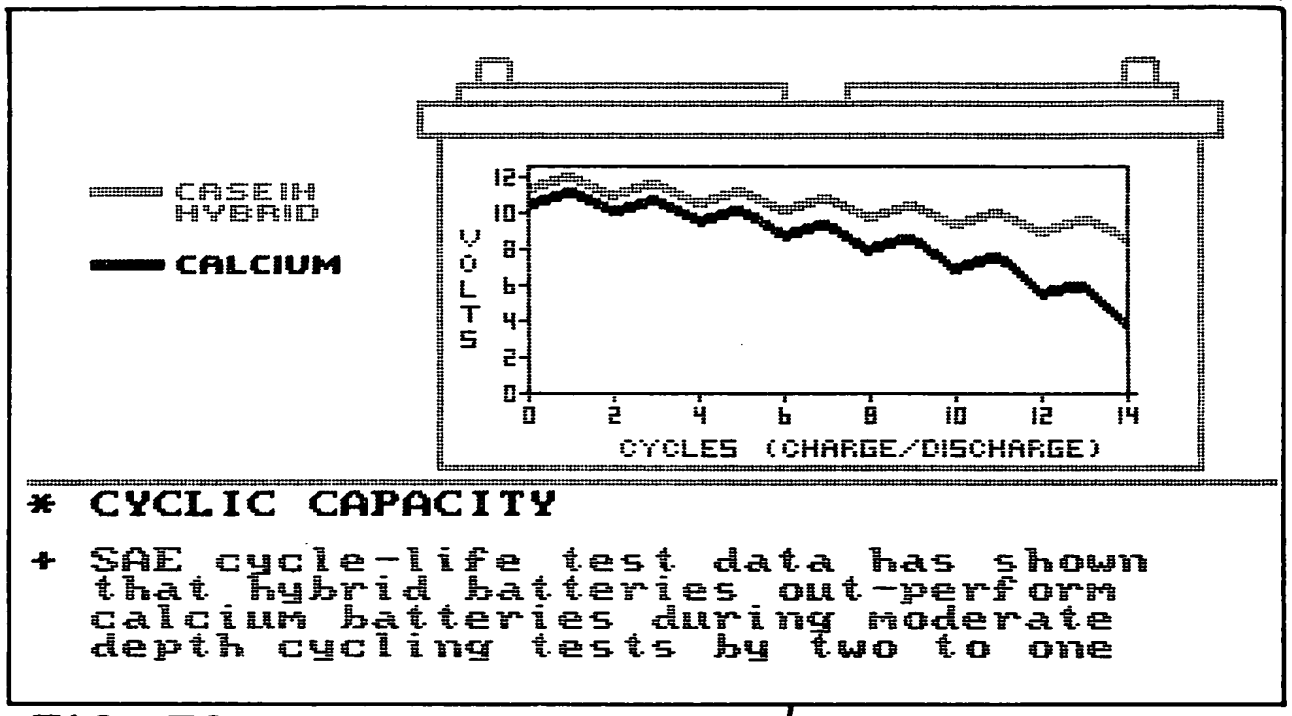



FIG. 78

812

FIG. 79

810

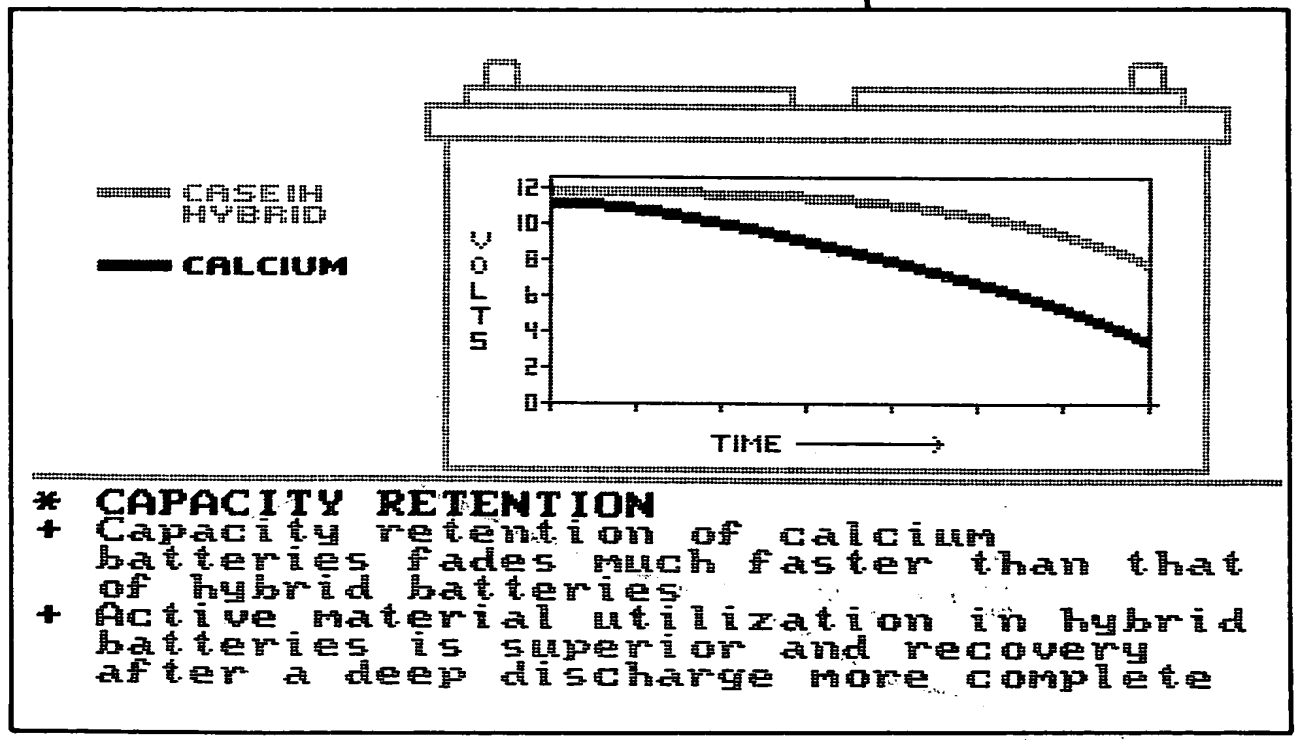


FIG. 80

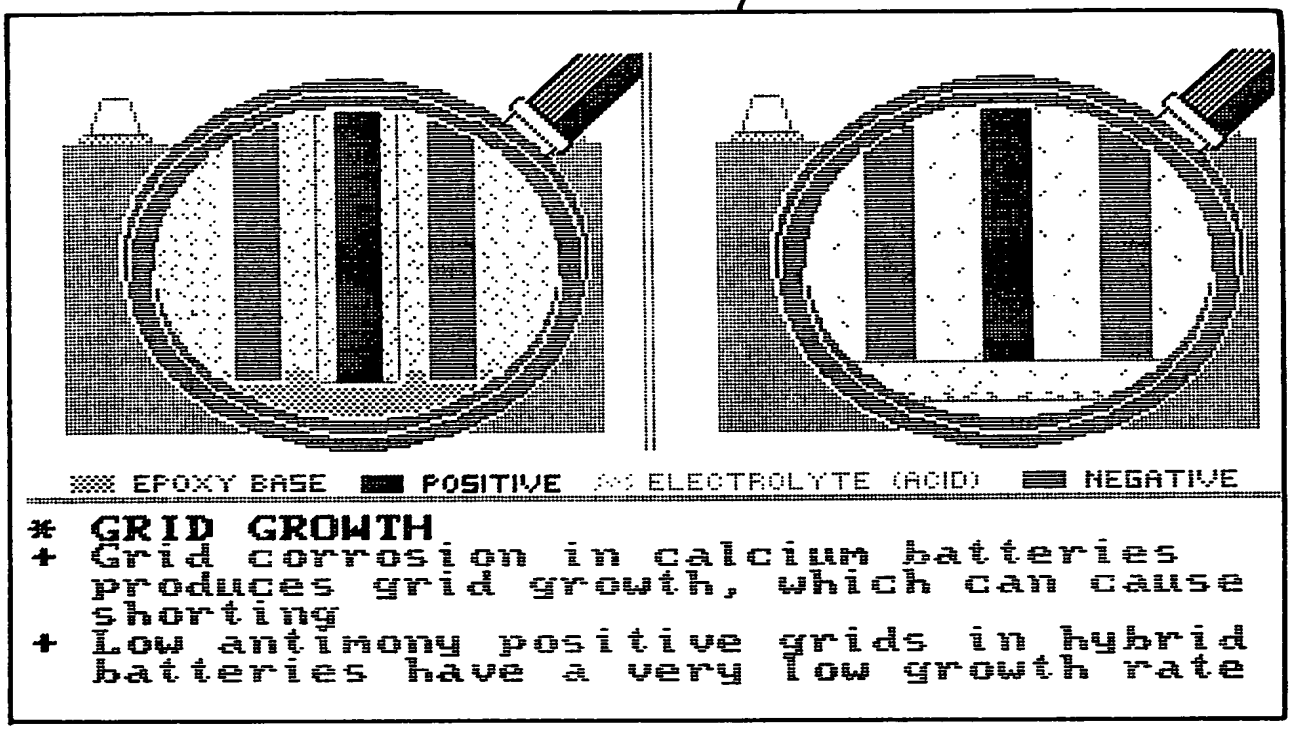



FIG. 81

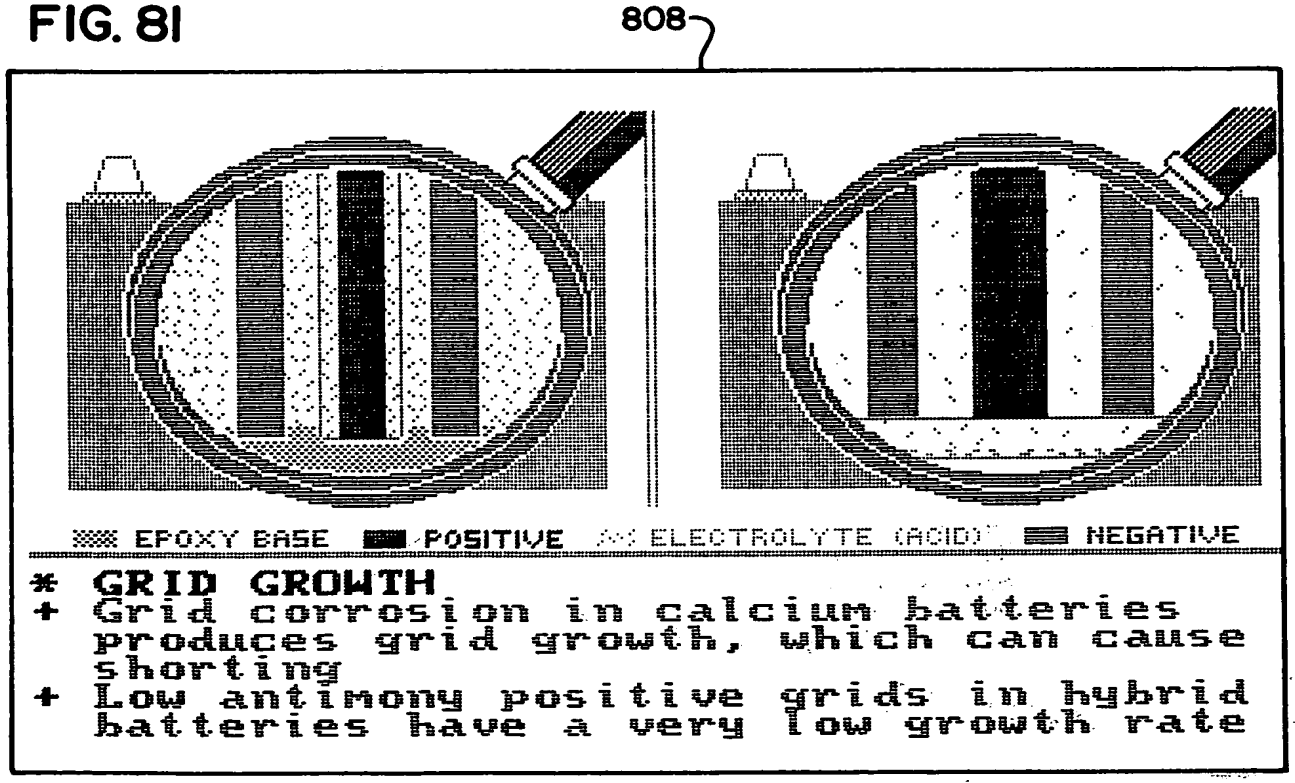


FIG. 82

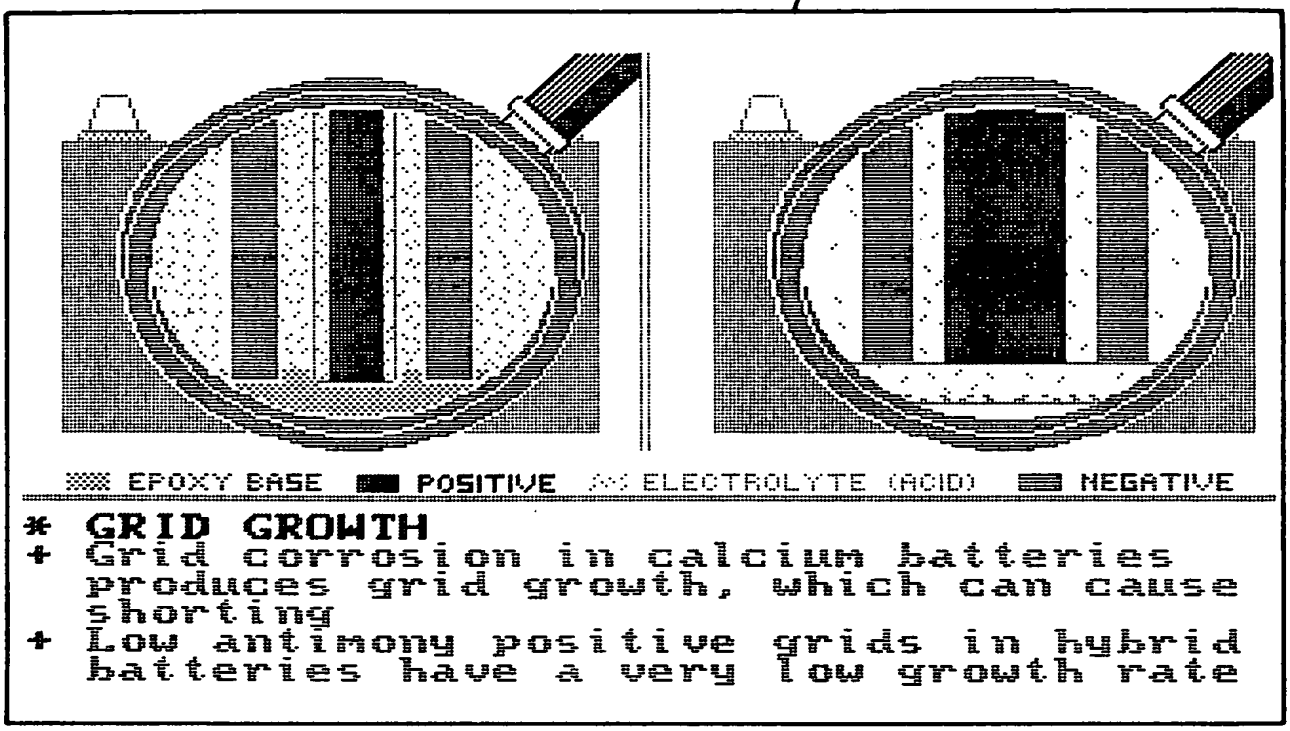



FIG. 83

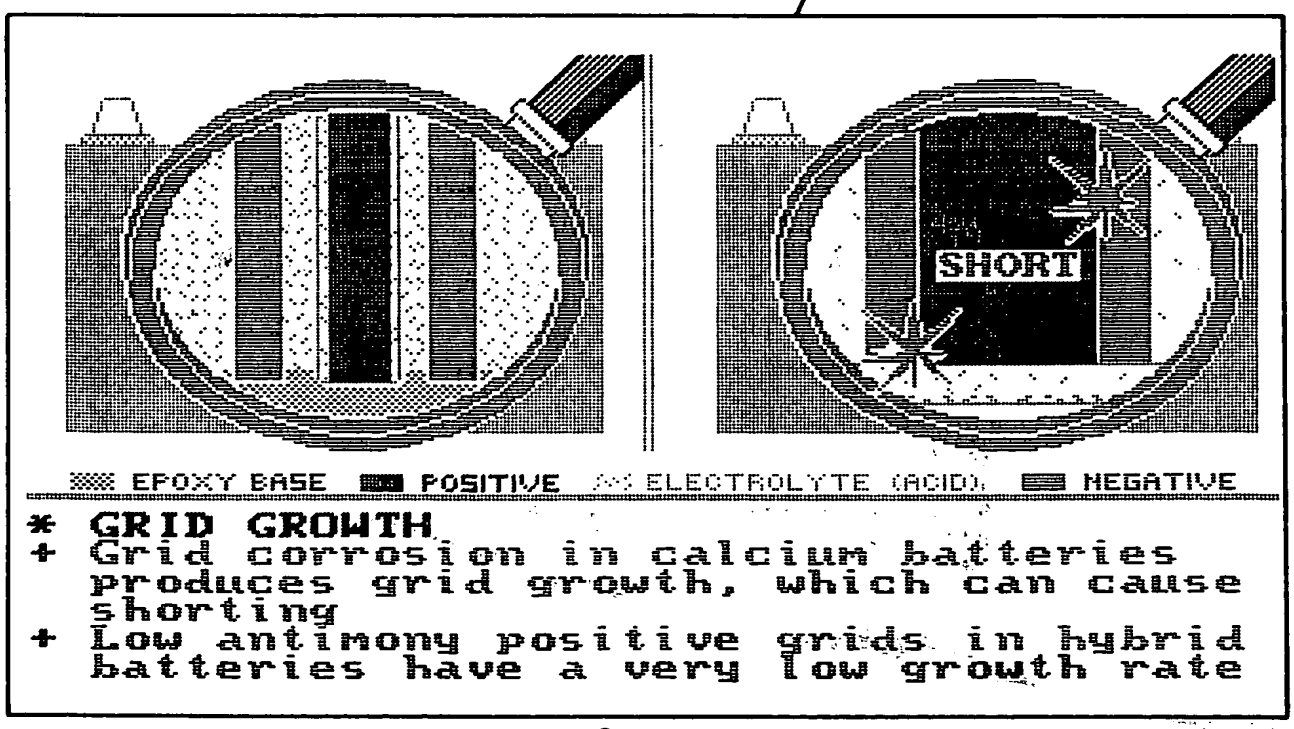
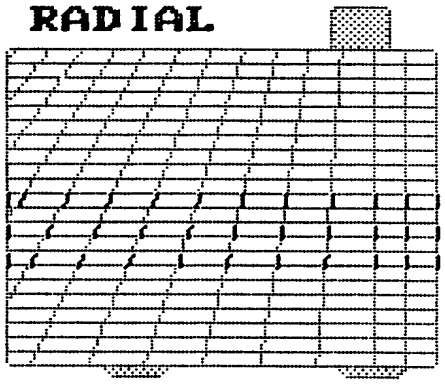
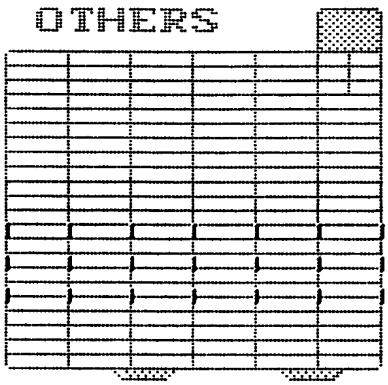


FIG. 84

806



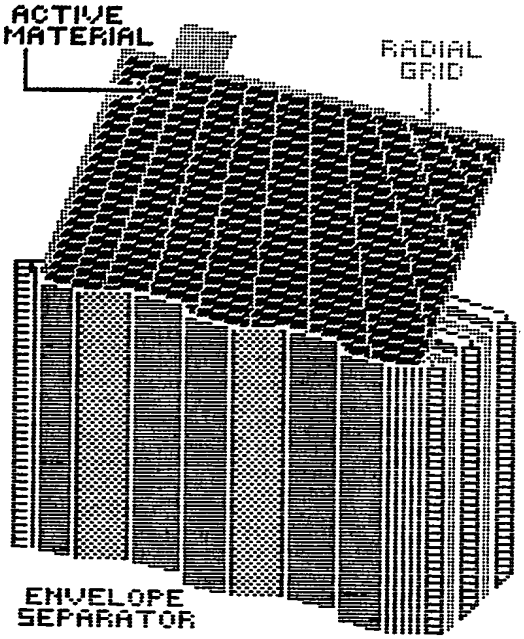




* COMPUTERIZED RADIAL GRIDS

+ Allow the shortest, most direct electrical flow to the terminals for faster starts
+ Developed by computer to guarantee the most efficient design possible

FIG. 85

804




## ENVELOPE SEPARATORS

+ Fully enclose grid plates to prevent direct grid-to-grid contact which results in a short circuit

+ Contain the shedding of active material from the grids due to vibration by keeping shed material in contact with grid

FIG. 90

826

"FLAME ARRESTER" VENT PLUG

Allows gas to escape but prevents external flames or sparks from entering the battery

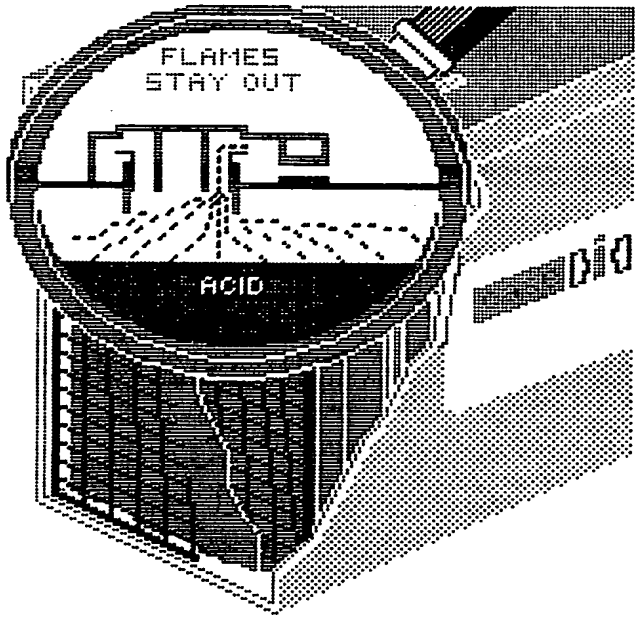
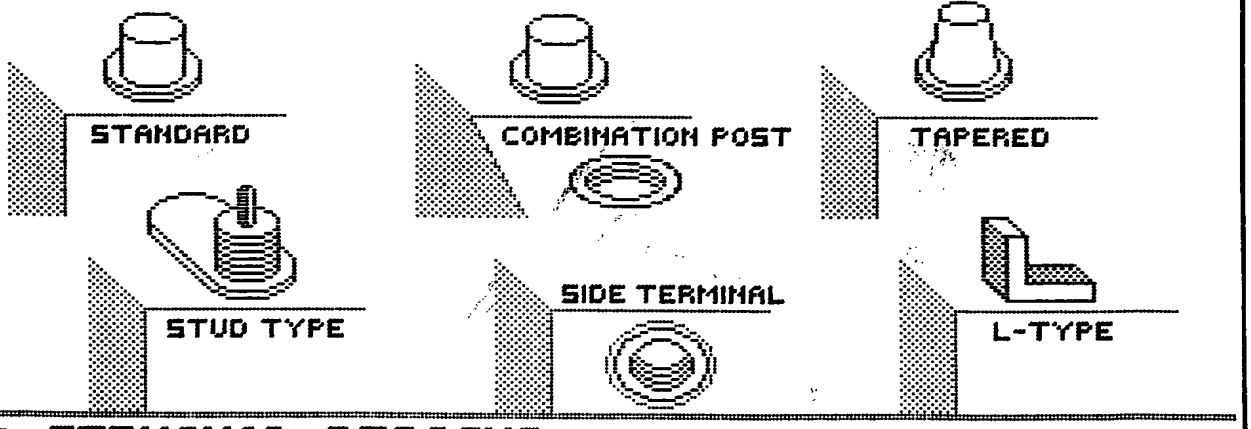


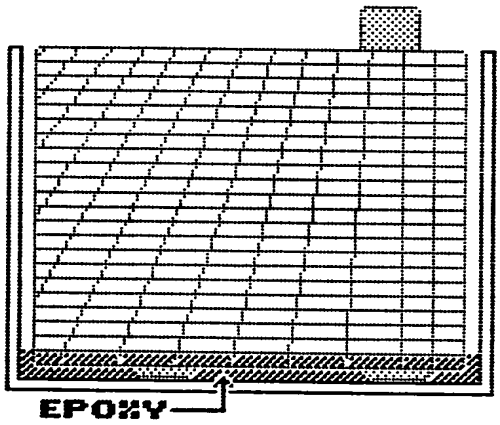

FIG. 91

828




* TERMINAL DESIGNS

+ CASEIH batteries offer a wide variety of terminal designs to meet your every need




## SUPERIOR ANCHORING

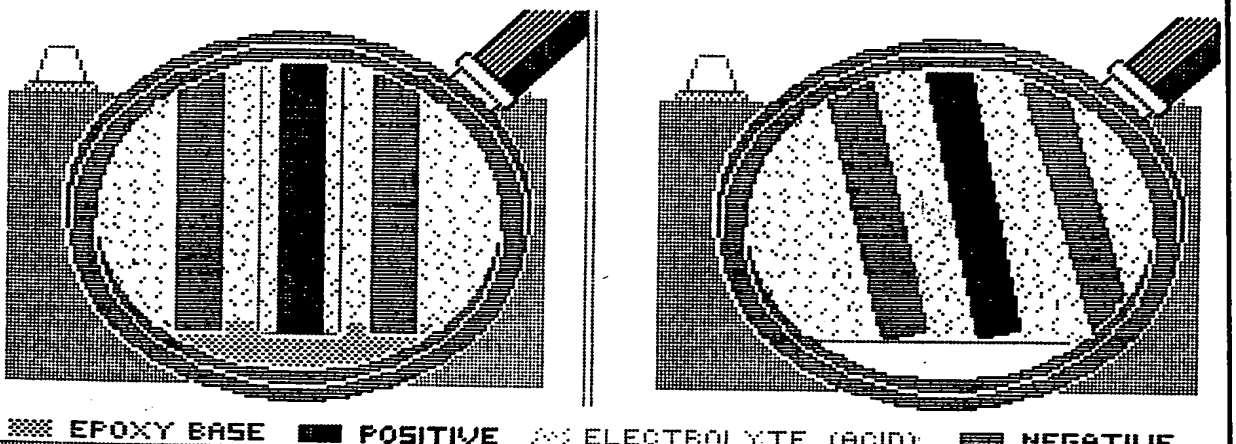
+ CASEIH only uses epoxy in the manufacturing process of its batteries
+ Epoxy is vastly superior to hot melt glue in its adhesion to dirty surfaces
+ Reduces grid plate vibration which is the major failure problem of heavy duty batteries

FIG. 86

818

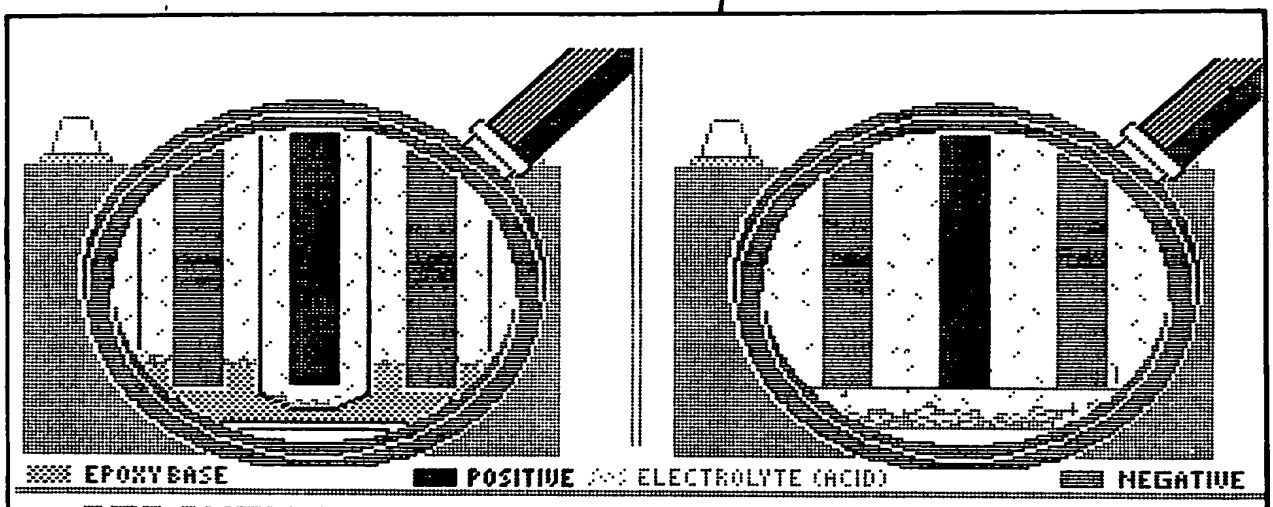
FIG. 87

820



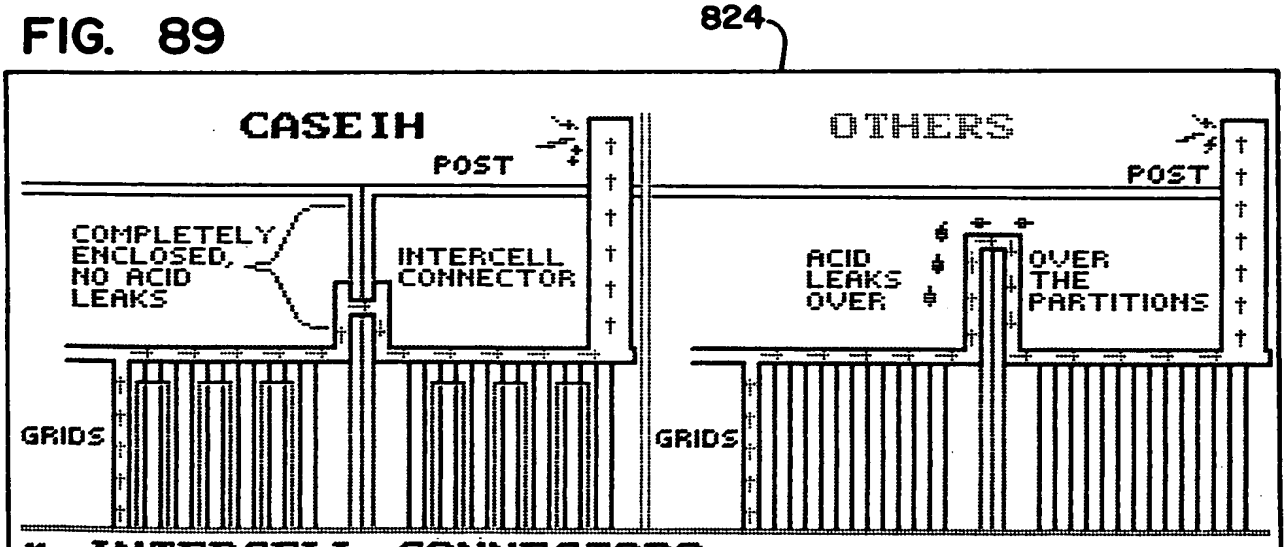

* GRID VIBRATION
+ Epoxy anchoring of grids helps to eliminate vibration damage by securely holding grids in place
+ Helps prevent shedding of active material and lengthens battery life

FIG. 88




* **SEDIMENT BUILD-UP**
+ Envelope separators keep any active material shaken off the plates in contact with the plates so no cold cranking power is lost
+ Prevents shorting of plates

FIG. 89




* **INTERCELL CONNECTORS**
+ Provide a shorter, lower resistance path through the battery for higher discharge voltage
+ Avoid dead cells caused by acid leakage for greater reliability